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Annual Report

Aresident

Borough of Queens

1914

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OF THE



ANNUAL REPORT

OF THE

PRESIDENT

OF THE

BOROUGH OF QUEENS

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PRESIDENT, BOROUGH OF QUEENS

Hon. John Purroy Mitchel,

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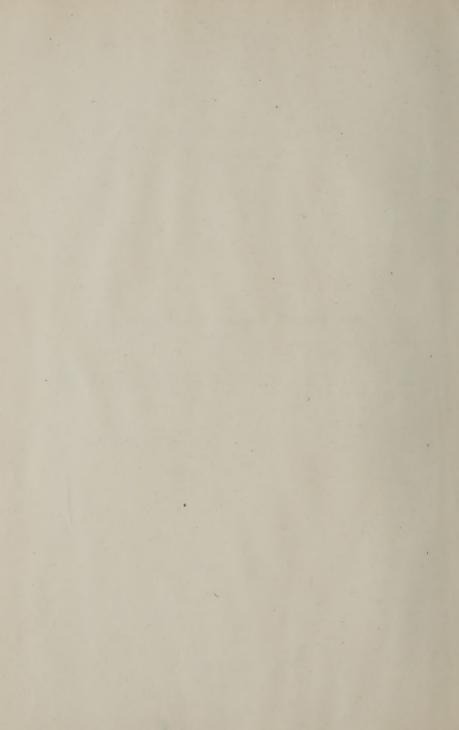
Mayor of The City of New York:

Dear Sir—Pursuant to the provisions of the Charter of The City of New York, I transmit to you the annual report of the operations of the President of the Borough of Queens for the year ending December 31, 1914.

Yours very truly,

MAURICE E. CONNOLLY,

President, Borough of Queens.



THE CITY OF NEW YORK

OFFICE OF THE PRESIDENT OF THE BOROUGH OF QUEENS

MAURICE E. CONNOLLY, President.

The Charter of The City of New York provides that the President of the Borough is required to submit to the Mayor a report showing the operations of the various departments under his supervision. A summarized report for the fiscal year ending December 31, 1914, has been prepared and is herewith transmitted.

At the time of consolidation the City of Greater New York was divided into five boroughs for the purpose of administering the functions of government that were local in character. Each borough elects a President who serves for four years. The Borough President has control of the grading, curbing, flagging, guttering, paving, repaving and repair of all streets in his borough, the laying and relaying of all surface railfoad tracks, the filling of sunken lots and the fencing of vacant lots, licensing of sub-surface vault space. The removal of encumbrances, and the issuance of permits to use and open streets for the purpose of building construction also come under his jurisdiction. He has charge of the construction and maintenance of all tunnels and bridges except those over navigable streams; the building and supervision of sewers, approval of plans and supervision of construction and alteration of buildings; the construction, repair, cleaning and maintenance of all public buildings in his borough (except school houses, alms houses, penitentiaries, police and fire stations); the care and cleaning of all offices occupied for public use referred to: the location, establishment, care and direction of public baths, public urinals, public comfort stations; and the placing of street signs. In the Borough of Queens the president also has jurisdiction over the cleaning of streets and the removal of ashes and garbage.

The office of the Borough President is subdivided into bureaus, each of which has its separate functions to accomplish and may be considered as a unit in making up this report. They are known as Highways, Sewers, Street Cleaning, Public Buildings and Offices, Topographical, Substructures and Franchises and the Bureau of the Supervision of Building Construction and Alteration.

The object of this report is to furnish general facts concerning the operation of these bureaus. Beginning with General Administration and its various subdivisions, this report will show an outline of the duties of each department and the operations which have been carried on during the year 1914, in order to fulfill these duties.

GENERAL ADMINISTRATION.

The main offices of the department are situated in the Borough Hall, 55 Jackson avenue, Long Island City. Besides the offices of the President, the Consulting Engineer, the Commissioner of Public Works and the Secretary of the Borough, there is located in this building the Local Board. These offices constitute what is called General Administration.

LOCAL BOARD.

For the purpose of home rule and local improvements The City of New York is divided into twenty-five districts of local improvements. In each of these districts

is a board of local improvements, known as the Local Board, entrusted with the power prescribed for the district by the City Charter. This board has jurisdiction over those subjects or matters the cost and expenses whereof are in whole, or in part, a charge upon the people or property of the district or part thereof except in so far as jurisdiction may be otherwise given by the Charter of The City of New York over matters of local administration within such district.

Each local board consists of the President of the Borough wherein the district is situated, and each member of the Board of Aldermen who represents an aldermanic district. The action of this board is by resolution subject to the procedure governing resolutions passed by the Board of Aldermen and conformable thereto.

There are two local boards in the Borough of Queens. During the year 1914 these two districts considered 493 petitions for local improvements, of which 377 were initiated at an estimated cost of \$3,527,511.09. A more detailed statement explaining these petitions appears at the end of this chapter.

CIVIL SERVICE DIVISION.

The numerous changes that are annually made in the office of the President of the Borough of Queens require that a bureau be maintained in order to record these changes. This bureau consists of a clerk in charge and a stenographer, whose duties are the handling and recording of all appointments, transfers, resignations or any other changes that are made in the force employed.

During the year 1914 there were recorded in this bureau 330 changes made in the competitive class and 337 changes made in the labor class, giving a total of 667 changes made during the year.

MAILING AND FILING DIVISION.

During the year 1914 about 7,000 pieces of mail were received in the administration offices of the borough. This correspondence had to be delivered to the various bureaus in the departments and properly noted, after which same were returned for filing. This work was accomplished by a clerk in charge and two assistants. They also dispose mail sent out, which is equally as large as that received.

PURCHASES AND SUPPLIES.

All materials and supplies are purchased through the Division of Purchase and Supplies. When requisition is made to the Purchasing Agent for material or supplies needed, he obtains bids from the various dealers and issues an order for delivery of the same from the lowest bidder. Samples of materials, catalogues for same and records for dealers also are kept by him. He is assisted by one clerk and one stenographer. During the year 1914 there was issued by him 3,270 orders, which amounted to the sum of \$338,103.15 from all funds.

CONTRACTS.

The Division of Contracts advertises for and receives bids on different contracts to be let by the department. When bids are received, contracts are let in accordance with law and proper records are made.

During the year 1914 128 contracts at a total cost of \$1,315,156.31 were let in this office.

AUDIT AND ACCOUNTS.

The administration of appropriations and bond fund accounts in the borough requires that a staff of clerks and bookkeepers be maintained to keep a correct record of the transactions arising from these accounts. A record is made of orders and contracts issued and payments made in order that the expenditures do not exceed the appropriation allowances. This staff is known as Audit and Accounts

and consists of a general bookkeeper, a clerk and bookkeeper and several other clerks.

In addition to the keeping of the above mentioned records, this division prepares statistical information as desired. This includes the keeping of cost data such as costs of operation and maintenance of various bureaus in the department. A statement of these costs appears in this report for 1914.

The Payroll Division also comes under this heading. This division keeps all the time records and makes up all payrolls for the borough.

In their proper order will appear a statement showing the conditions of the appropriation and bond fund accounts on December 31, 1914, a trial balance of the ledger accounts, a summary of the quarterly reports issued for the year 1914, and a statement showing the cost of operations and maintenance of the various bureaus during the year. In this last statement the Bureau of Substructures and Topographical Bureau appear under one heading.

OPERATIONS OF THE LOCAL BOARD.

Total	Cost of Works Initiated.	\$2,358,414.33 8,975.00	10,613.76	4,200.00	857,240.00	14,100.00	90,150.00	13,658.00				\$3,527,511.09
	Kind.	For sewer construction.	Greater New York Charter	For regulating, grading and curbing.	walks, etc.	For paving (asphalt block)	walks and paving	For acquiring title	For amending or discontinuing proceedings, etc.	For closing For water	For gas and electricity Miscellaneous	
ted.	4th Quar- ter.	10	4	:22	n (ი:	:	: 2	٠::	:4	21	52
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Number of Petitions Considered.	2d Quar- ter.	\$ 27	0	: :8	00	∞ :r	, 01	11	:0	. 1.	38.0	182
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List of Appointments, Transfers, Resignations, Etc., in the Borough of Queens Year of 1914.

	Competitive Class.	Labor. Class.
Appointments—		
Permanent	57	25
Provisional	3	
Temporary Temporary positions made permanent	30	10
	4	
Transferred—		
From other bureaus	15	12
Interdepartment transfers	39	55
Temporary assignments Promotions	8 23	
Increases allowed	19	·24
Decreases made	3	3
Declination of appointment	3	
Suspensions—		
Lack of work	49	25
End of temporary period	13	
Other causes	2	4 3
Leave of absence—		
Without pay	10	35
With pay (injuries received in performing duties)		15
With one-half pay (serious illness)	2 1	
Reinstated	3	2
Reassigned	13	65
Resignations	16	. 9
Vacancies caused by deaths	5	34
Services ceased	10 .	3 11
D1311133013		
Total changes made	330	337

COMPARATIVE TABLE SHOWING THE LABORING FORCES EMPLOYED IN THE VARIOUS BUREAUS DURING THE YEAR 1914.

		-	First Quarter.	narter		-					-	1				1	and interest or the last		{					1
Title of Position.	Genl. Adm.	Sewer.	Temp. Reg.	Street	Cleaning.	P. B. and O.	Genl, Adm.	Sewer.	Temp. Reg.	Street Cleaning.	.odoT	P. B. and O.	Genl. Adm.	Sewer.	Temp. Asys.		Street Cleaning. Topo.	P. B. and O.	Genl. Adm.	Sewer.	Temp.] & I	High-ways.	Street Cleaning.	.oqoT
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Dump Boardmen				13	:		:			14	:	:	:	:	:	:	4				:	:	14	:
Storekeeper	: :					:	:	:		-	: :	:	:	:	:					:	:	:	-	:
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Machinist Helper		-			:		:	_	:	:	:	:	:	:					:	:	:	:	:	:
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ehicle and Driver			9	47					09	45	:	:	:	:	09	9	0		:		09		29	
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CONTRACT AND OPEN MARKET ORDERS ISSUED DURING 1914.

Month.	Num- ber.	Appro- priations.	Special Revenue Bonds.	Corporate Stock.	Special and Trust Funds.	Total.
January	251	\$11,953.53	\$276.95	\$2,740.94	\$2,553.12	\$17,524.54
February	150 262	7,438.17 12.064.90	42.55 11.00	438.73	200.00	8,119.45 13,386.63
March	247	29,943.93	11.00	1,024.00		30,967.93
May	333	37,881.32		1,687.43	20.00	39,588.75
June	365	65,123.93		394.78	869.15	66,387.86
July	298 261	47,782.69 19,666.64		1,067.56 518.47	498.60 628.20	49,348.85 20.813.31
September	217	31,478.52		540.00	734.55	32,753.07
'October	328	18,183.99		187.60	698.05	19,069.64
November	258	11,589.23		146.00	372.00	12,107.23
December	300	26,883.54		840.50	311.85	28,035.89
	3,270	\$319,990.39	\$330.50	\$10,735.19	\$7,047.07	\$338,103.15

CONTRACTS AWARDED DURING YEAR 1914.

Month Regis- tered.	Number of Contracts.	Appropriations.	Special Revenue Bonds.	Corporate Stock.	Total.
January					
February	33	\$5,514.60		\$239.860.58	\$245,375,18
March	24	95.590.88		337.054.42	432,645.30
April	16	33.593.97		50,247.35	83.841.32
May	12	34.852.61		44.159.70	79.012.31
June	15			135,096.51	135.096.51
July	5	7.245.00		77.140.23	84.385.23
August	2	12.075.00		18.742.50	30.817.50
September	$\tilde{4}$	10,194.96		41.736.70	51.931.66
October	7	3,437.50		101.894.77	105.332.27
November	2	4.740.00		2.950.00	7.690.00
TO 1	8	2.840.10	\$12,130,00	44,058,93	59.029.03
December	0	2,040.10	\$12,130.00	44,058.95	39,029.03
Totals	128	\$210,084.62	\$12,130.00	\$1,092,941.69	\$1,315,156.31

CURRENT FUND ACCOUNTS.

Balance of appropriations 1913 and prior years, December 31, 1913 Amount transferred to General Fund during 1914	\$147,788.02 36,919.13		
Net appropriations 1913 and prior years available 1914		\$110,868.89 2,066,981.64	
Total appropriation accounts Net vouchers issued against 1913 and prior years Net vouchers issued against 1914 appropriations		\$99,696.96 1,937,376.46	\$2,177,850.53
Total expenditures from appro- priations		1,937,370.40	2,037,073.42
Unexpended balance December 31, 1914 Unexpended balance 1913 and prior years Unexpended balance 1914 appropriations	\$11,171.93		\$140,777.11
	\$140,771.11		
Reserves.			
Outstanding liabilities against 1913 and prior years Outstanding liabilities against 1914 appropriations		\$389.07 109,712.69	
Total amount reserved for liabilities			110,101.76
Unencumbered balance December 31, 1914 Unencumbered balance 1913 and prior years Unencumbered balance 1914 appropriations	\$10,782.86		\$30,675.35
	\$30,675.35		
			Andrew Services
Special Revenue Bond	Fund Accou	UNTS.	
Unexpended balance of Special Revenue Bond Fund Authorization December 31, 1913		\$11,414.06	
Amount Special Revenue Bonds Authorization year 1914		64,326.62	
Total Special Revenue Bond Funds available 1914 Amount of Special Revenue Bond Funds ex- pended 1914			\$75,740.68 54,158.56
•		-	
Unexpended balance December 31,1914			

CORPORATE STOCK FUNDS ACCOUNTS.

Amount of Corporate Stock Funds Cancelled	\$866,470.67 157.07 206.30
Net amount to be deducted from unencumbered balance of December 31, 1913	60,049.23
Total amount available for use during 1914 Expenditures against Corporate Stock Funds year of 1914\$2,139,, Amount of charges transferred from Special and Trust Funds to CFM25, January 31, 1914	272.66
Total charge against Corporate	
Stock Funds year 1914	8,509,373.29
Amount of authorization required to cover charges remaining against account	\$7,702,951.85
Special and Trust Fund A	ACCOUNTS.
Balance of charges against Special and Trust Funds December 31, 1913\$6,355, Amount of charges transferred to Corporate Stock Fund CFM25 January 31, 1914 6,370,	
Balance as unexpended	\$14,774.17
Total Special and Trust Funds available 1914	\$41,909.38
Amount of Special and Trust Funds expended 1914	27,824.64
Unexpended balance December 31, 1914	\$14,084.74

	Dr.	Cr.
Budget Allowance	\$140,777 11	
Appropriations, 1908	******	\$138 80
Appropriations, 1911		5 50
Appropriations, 1912		164 11
Appropriations, 1913		10,863 52
Appropriations, 1914	21 502 12	129,605 18
Special Revenue Bonds Authorized	21,582 12	21,582 12
Special Revenue Bond Fund	21,582 12	
Special Revenue Bond Fund	21,502 12	21,582 12
Corporate Stock Authorized		7,702,951 85
Reserve for Corporate Stock Authorized	7,702,951 85	
Corporate Stock Funds		7,702,951 85
Corporate Stock Funds, Reserve	7,702,951 85	
Special and Trust Funds	. 14,084 74	14004 7
Special and Trust Funds, Reserve	26,118 83	14,084 74
Open Market Orders		19,398 52
Open Market Order Reserve Appropriations Open Market Order Reserve Special Revenue Bond		19,390 34
Funds		54 00
Open Market Order Reserve Corporate Stock Funds		3,962 50
Open Market Order Reserve Special and Trust Funds		2,703 81
Contracts	1,342,353 55	
Contract Reserve Appropriation		36,377 63
Contract Reserve Special Revenue Bond Funds		20,218 45
Contract Reserve Corporate Stock Funds		1,285,757 47
Contract Orders	20,897 90	00.007.00
Contract Orders Uncleared	119 14	20,897 90
Expense, 1911 Expense, 1912	176,814 23	
Expense, 1912 Expense, 1913	687,586 77	
Expense, 1914	1,928,988 24	
Construction	1,632,473 27	
Recoverable Expense	6,313,505 86	
Office Furniture and Equipment	47,448 23	
General Plant Equipment	1,122,748 54	
Stores	91,021 91	
Invoices Payable		347,542 20
Department of Finance		10,561,807 41
Department of Finance (Invt. G. P. E.) Restoring and Repaying Deposits		1,104,986 67 19,316 91
Excess Accounts Receivable	3,673 07	19,510 91
Miscellaneous Accounts Receivable	0,070 07	402 22
Vault Permits		12,276 33
Security Deposit Funds		27,368 00
Sewer Permits		21,207 33
Construction of Private Sewers		5.131 82
Appropriations, 1913-1914 (Cash Recd.)		252 66
Sundries		191 00
Reserve for Restoring and Repaving Streets, Accounts		2 210 27
Receivable Finance Department (Cash Permits)	127,774 42	3,310 37
Surplus Restoring and Repaving	127,774 42	3.230 60
Refunds Due Plumbers		9,154 29
Roof and Shed Permits		30 00
Fermits for Roof and Ground Signs		229 00
General Fund		512 50
Privileges		2,672 87
Ornamental Projection Permits		166 04
Cash Received, Street Improvement Fund, C.F.M. 25		12,365 46
	\$29,092,506 75	\$20,002 506 75
	φ29,092,300 /5	φ29,092,300 /5

Comparative statements showing annual appropriations and liabilities incurred during the past four years:

	1911.	1912.	1913.	1914.
Appropriations		\$1,748,983.71	\$1,837,417.41	\$2,006,708.43

Liabilities incurred from Appropriation Accounts and all other Funds during the quarters as shown in the following comparative table:

	1911.	1912.	1913.	1914.
1st Quarter 2d Quarter 3d Quarter 4th Quarter	\$124,624.42 402,721.98 716,040.42 183,279.59	\$120,473.25 1,713,169.74 1,107,117.16 553,605.44	\$108,768.89 1,374,963.49 355,463.62 1,377,303.84	\$1,302,487.45 1,199,425.04 1,229,136.27 1,004,919.16
Total Liability	\$1,426,667.41	\$3,494,365.59	\$3,216,504.84	\$4,735,967.92
Balances in appropriation 1914	1914			\$120,472.29 2,066,708.43 1,204,371.22
Grand total				\$3,391,551.94

EXPENDITURES ON OPEN MARKET ORDERS AND CONTRACTS.

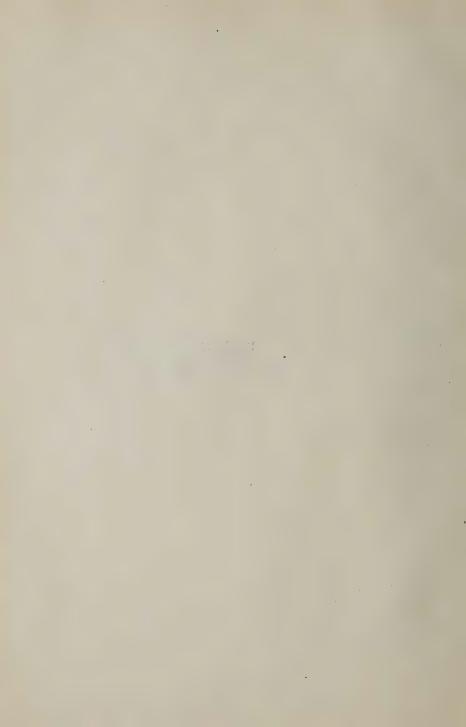
1914.	O. M. O.	Contracts.	Totals.
January	\$13,808.36	\$162,436.77	\$176,245.13
February	9,591.40	105,527.02	115,118,42
March	6,673.09	63,997.60	70,670,69
April	16,915.12	107,618,84	124,533.96
May	16,225.95	157,832.26	174,058.21
June	17,831.69	300.080.94	317,912.63
July	22,321.49	274,330.01	296,651.50
August	19,664.38	285,088,43	304,752.81
September	16,351.63	163,600.48	179,952.11
October	12,025.11	229,123.82	241,148.93
November	10,870.79	198,869.42	209,740,21
December	18,216.97	210,321.53	228,538.50
Totals	\$180,495.98	\$2,258,827.12	\$2,439,323.10

Contracts awarded prior to 1914 and not completed January 1, 1914 Contracts awarded 1st quarter 1914 \$678,020,48 Contracts awarded 2nd quarter 1914 565,532,04 Contracts awarded 3rd quarter 1914 167,134,39 167,134,39 167,134,39	\$2,176,837.81
Contracts awarded 3rd quarter 1914	1,582,738.21
Contracts completed during 1st quarter. \$489,458.20 Contracts completed during 2nd quarter. 68,189.14 Contracts completed during 3rd quarter 217,366.33	\$3,759,576.02
Contracts completed during 4th quarter	1,604,043.70
Contracts not completed on Dec. 31, 1914—Totals	\$2,155,532.32

STATEMENT SHOWING COST OF OPERATION AND MAINTENANCE OF THE VARIOUS BUREAUS IN THE BOROUGH OF QUEENS.

ıary.	Totals.	\$1,295,506.10	35,309.54			:		23/,041.00			56,727.75			:	400 105 63	400,100,00		:		:::::::::::::::::::::::::::::::::::::::	:		:	215.46	\$2,113,647.14
Summary.	Sub-Totals.			4,052.58	16,265.46	5,708.52	2,395.01	3,470.45	5,335.19	2,252.65	:	27,516.82	7.053.37	7,563.41	60.006	45,408.50	3,401.01	399,394.12	8,679.88 14,498.48	70.18	2,489.16	1,938.29	2,342.19	77.1066	
Supervision of Build- ing Con-	struction and Al- teration.	75,509.29		254.54			205.74		•		:	427.70	713.03		:	18.70	76.74.2	:	2,084.30		440.00	:	202 10	303.10	880,331.05
1	Topo- s graphical.	\$194,816.08 \$75,509.29		206.50		• (350.86		18.72			5,093.50	539.57	769.15	06.76	658.19	53/.84	1,164.00	2,910.05	2.35	305.30		25.55	10.00	\$209.195.47 \$80,331.05
Bureau of Public	Buildings and Offices.	\$71,463.42	102.00	2,079.26	6,445.93	616.91	619.50	1,539.46	899.73			1,469.63		935.76		3,722.18	:	:	200.00		:	:	2,284.69	37.00	\$94.892.49
Bureau	of Street Cleaning.	\$273,844.74	:	97.55	1,423.77	5.40	157.54	192.45	1,295.07			5,368.60	3,431.11	130.99	124.33	1,477.55	530.84	258,307.60	571.59	19.97	240.00	1,938.29	7.95	14.71	\$556.263.39
Bureau	of Sewers.	\$163,275.44	:	112.32	5,014.22	5,065.68	287.43	407.19	1,336.55	2,252.65		3,554.72	743.20	1,322 51	20.6/9	10,203.82	306.27	22,634.57	2,854.20	27.32	215.00	:	20.15	3.00	\$224.515.41
Bureau	of Highways.	\$434,602.36		341.94	3,381.54	20.53	503.42	1,331.35	1,785.12			11,558.67	9,461.75	1,784.35	24.58	29,253.75	1,231 98	117,287.95	5,625.68	18.00	533.99	:	3.85	1,112.01	\$885.410.88
General	Adminis- tration.	\$81,994.77		960.47	8		31.50		:			44.00	A 105 AO	2,620.65	3.00	74.31	700.11	:	344 10	2.54	754.87	:		201.90	\$93.038.45
	Functional Budget Classification.	Personal Service	Supplies	Office Supplies	Fuel Supplies	Laundry Cleaning and Disinfecting Supplies	Motor Vehicle Supplies.	Materials	General Plant Material.	Highway Material	Equipment Issued as Consumable	General Plant Equipment	Motorless Vehicle and Equipment.	Office Equipment	Wearing Apparel	Service	Motor Vehicle Repairs	and Vehicles with Drivers	and Vehicles without Drivers	Transportation — Expressage and	Transportation—Storage of Motor	Transportation — Shoeing and Boarding of Horses	Communication — Telephone Service	General Plant Service	Total Expenses

BUREAU FOR THE SUPERVISION OF BUILDING CONSTRUCTION AND ALTERATION



ANNUAL REPORT OF THE BUREAU FOR THE SUPERVISION OF BUILD-ING CONSTRUCTION AND ALTERATION, DECEMBER 31, 1914.

The Bureau of Buildings is under direction of the Superintendent of Buildings, who, in accordance with the provisions of law, is appointed by the President of the Borough.

The Bureau is sub-divided into two branches: Administration and Inspection.

The Administrative force is made up as follows: Superintendent, Assistant Superintendent, Secretary, Chief Clerk, six Clerks, two Stenographers and Typewriters, four Plan Examiners, etc.

The Inspection force consists of Chief Inspector, twenty-two Inspectors of Carpentry and Masonry, eleven Plumbing Inspectors, one Steel and Iron Inspector, two Flastering Inspectors and one Elevator Inspector.

The duties of the Bureau consist of the enforcement of all Rules and Regulations, and the provisions of the Charter and such ordinances as may be established by the Board of Aldermen, and of the laws relating to the construction and alteration and removal of buildings or other structures erected or to be erected within the Borough.

The following statements will show how this was accomplished during 1914:

BUREAU OF BUILDINGS.

Record of Inspections.	
Kind.	Number.
Construction	139,405
Iron and Steel	2,759
Elevator	2,682
Plumbing	49,659
-	
Total	194,505
Work Completed.	
New Buildings Alterations	2,397 1,295

PLANS AND APPLICATIONS FOR NEW BUILDINGS FILED AND ACTED UPON DURING THE YEAR ENDING DECEMBER 31, 1914.

No. of Buildings.	Classification.	Estimated Cost.
2,309	Frame Dwellings	\$5,823,984
505	Brick Dwellings	2,123,550
86	Frame Stores and Dwellings	204,075
234	Brick Stores and Dwellings	1,180,850
11	Frame Tenements	48,400
293	Brick Tenements	3,649,800
	Frame Stores and Tenements	
30	Brick Stores and Tenements	361,500
40	Public Buildings (Amusements)	375,200
	Public Buildings (Municipal)	
53	Manufactories and Workshops	2,056,200
12	Churches	139,800
8	Schools	925,000
2	Hotels and Boarding Houses	41,000
1	Hospital	1,000
18	Storage, Warehouses, Etc	488,400
5	Office Buildings	60,000
347	Garages	241,136
79	Stables	139,100
563	Other Frame Structures	239,295
4,596	Totals	\$18,098,290

Plans and Applications for Alterations Filed and Acted Upon During the Year Ending December 31, 1914.

No. of Buildings.	Classification.	Estimated Cost
1,580	Frame Dwellings	\$415,367
133	Brick Dwellings	30,820
279	Frame Stores and Dwellings	
128	Brick Stores and Dwellings	53,548
28	Frame Tenements	
34	Brick Tenements	
26	Frame Stores and Tenements	
39	Brick Stores and Tenements	
46	Public Buildings (Amusements)	
7	Public Buildings (Municipal)	
150	Manufactories and Workshops	241,375
23	Churches	
36	Schools	
40	Hotels, Boarding Houses, Etc	
4	Hospitals	
35	Storage, Warehouses, Etc	29,155
23	Office Buildings	
40	Garages	
39	Stables	
209	Other Frame Structures	. , .
2,909	Totals	\$1,275,181

Plans and Applications for New Buildings Filed and Acted Upon During the Year Ending December 31.

		1911		1912		1913		1914
Classification	No.	Est. Cost.	No.	Est. Cost.	No.	Est. Cost.	No.	No. Est. Cost.
Frame_Dwellings	2,658	\$7.657,641	2.691		2.530	\$6 540 471	2 300	\$5 823 08A
Brick Dwellings	1,105	4,083,305	674	2,860,850	536	2,455,410	505	2.123,550
Frame Stores and Dwellings	70	194,900	65		76	198,460	98	204.075
Brick Stores and Dwellings	226	1,003,850	176		131	654,650	234	1.180,850
Frame I enements	30	135,500			7	35,500	11	48,400
Brick Lenements	329	3,001,700	203		247	2,999,500	293	3.649,800
Frame Stores and Tenements	:		_					
Brick Stores and Tenements	121	1,146,500	17		95	899,000		361 500
Fublic Buildings (Amusements)	45	238,200	52		53	335,475	4	375 200
Fublic Buildings (Municipal)	2	90,000	.13		4	98,500		
Manufactories and Workshops	65	1,223,200	83		56	1.107,150	53	2.056.200
Churches	7	45,900	9		10	51,900	12	1.39,800
Schools	7	467,000	9		11	721,579	×	925,000
Hotels, Boarding Houses, Etc	20	404,000	20		16	156,200	2	41,000
Hospitals	4	1,250,000			3	347.600		1,000
Storage Warehouses	37	714,485	23		20	282.625		488,400
Office Buildings	19	185,140	22		16	98,300		60,000
Carages	147	148,451	214		241	249,673		241 136
Stables	122	79,980	46		80	131,680		139,100
Other Frame Structures	360	143,503	456		514	151,562	563	239,295
Totals	5,374	\$22,212,255	4,821	\$19,651,222	4,646	\$17,521,235	4,596	\$18,098,290
A STATE OF THE PERSON NAMED IN COLUMN NAMED IN	The state of the s			Management of the State of the				

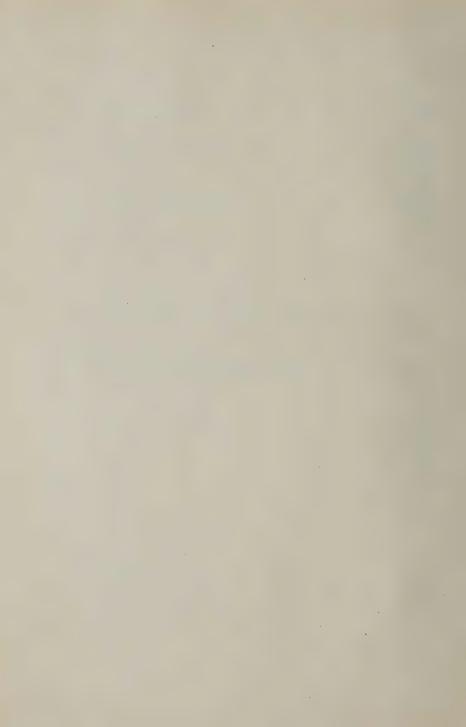
PLANS AND APPLICATIONS FOR ALTERATIONS FILED AND ACTED UPON DURING THE YEAR ENDING DECEMBER 31.

		1911		1912	1	1913		1914
Classification	No.	Est. Cost.	No.	Est. Cost.	No.	Est. Cost.	No.	Est. Cost.
	587	\$305 438	741	\$320 23A	1 202	4200 153	1	100
Brick Dwellings	77	21,665	117	+07,7304	2000,1	201,000¢	1,580	\$415,307
Frame Stores and Duettim	100	500,100	77	8,400	36	10,179	133	30.820
Dail Ctarre of D. 11	2007	103,925	214	106,129	313	112,799	279	132,811
Drick Stores and Dwellings	43	9,265	49	14,362	99	15,925	128	53,515
Frame Tenements	34	22,635	17	4 995	22	5 170	000	2,01
Brick Tenements	∞	1,545	6	4,100	1 4	14 945	3.5	10,01
Frame Stores and Tenements	20	6,410	10	3.055	17	3,390	26	2,01
Brick Stores and Tenements	13	10,065	17	12,176	27	12,664	300	3,000
<u>`</u>	39	24,536	30	17,945	43	48,642	46	51,233
Fublic Buildings (Municipal)	:		4	10,350	2 65	2,012	51	01,300
Manufactories and Workshops	68	178,075	96	185,335	1,50	261,312	150	24,463
Churches	13	21,000	6	31 425	-	24 033	22	10 10 1
	10	49,575	14	226,500	200	56,350	25	16,123
Hotels, Boarding Houses, Etc	41	40,624	37	70,327	22	77,77	000	40,723
Hospitals	-	300	2	200	, 4	707	7	7,74
Storage, Warehouses	∞	009'6	18	114.385	43	135 151	+ ;;	20,000
Office Buildings	26	32,515	17	5.250	20	29,540	23	25,133
Carages	ນດ	3,125	15	6.085	31	4 352	40	25,700
Stables	18	8,250	29	11.800	14	13 103	30	27,780
Other Frame Structures	65	13,905	124	24,690	259	41,973	219	62.889
1 otals	1,273	\$872,453	1,473	\$1,187,243	2,498	\$1,234,086	2,909	\$1.275.181

VIOLATIONS OF THE LAW DURING THE YEAR ENDING DECEMBER 31.

Nature of Violation.	Pending Dec. 31	Received	Total for Disposition	Removed	Pending Dec. 31	Re- ferred to Corp. Counsel
Defective construction, plumbing, etc. Erecting, altering or removing without a permit Unsafe buildings	563 539 209	513 503 185	1,076 1,042 394	259 574 95	817 468 299	212
Totals	1,311	1,201	2,512	826	1,584	50

TOPOGRAPHICAL BUREAU AND BUREAU OF SUB-STRUCTURES AND FRANCHISES



REPORT OF THE TOPOGRAPHICAL BUREAU OF THE BOROUGH OF QUEENS, CITY OF NEW YORK, 1914.

TENTATIVE MAPS.

The year 1914 saw the completion by this Bureau, and the adoption by the Board of Estimate and Apportionment, of the Black Stump Tentative Map. This map lays down a tentative street and grade system for an area of 5,460 acres, lying approximately between the old Stewart Railroad and North Hempstead Turnpike on the north, Metropolitan and Hillside Avenues on the south, Flushing Creek and Forest Park on the west and Bushville Road on the east.

The tentative map of the Borough is now complete, except for the low land adjacent to Jamaica Bay and south of the Brooklyn water supply conduit. A tentative map for this area, to be known as the Idlewild Tentative Map, will be completed and submitted to the Board of Estimate and Apportionment, for its approval, during 1915.

FINAL MAPS.

During the year 1914 the Board of Estimate and Apportionment approved eight of our final section maps (totaling 2,386 acres). Within the same period we forwarded to the Board of Estimate and Apportionment, for its approval, eleven of these final sections, and there is now before it, waiting adoption, six. In addition to these final section maps, the Board of Estimate and Apportionment approved six special final maps and forty-eight maps altering final maps previously approved by it. Eight of these special maps and 67 of the alteration maps were forwarded by this Bureau to the Board of Estimate and Apportionment, for its approval, during the year; and there are nine of the former and fifty-eight of the latter now before it waiting approval.

In course of preparation, there are now eleven final section maps with the draughtsmen, eight with the computers, and twelve with the surveyors.

STREET OPENING MAPS.

This Bureau has been aware of the importance of quickly and cheaply preparing the maps required by the Commissioners in street opening proceedings. The cost of these maps is a direct charge upon the property directly benefited, and often the immediate need of some important improvement requires prompt action on our part.

To meet changes made in the lines of Queens boulevard, subsequent to the completion by this Bureau of the draft damage map, an amended draft damage map had to be made with all haste, so as not to delay the hearings of the Commissioners.

This amended draft damage map was forwarded to you on May 27, 1914, and approved by the Board of Estimate and Apportionment on June 26, 1914. The benefit maps in the proceedings are now well advanced, and will be forwarded to you early in 1915. These maps will number 116, and affect an area of 1,590 acres.

To expedite the legal requirement that fee title to a street must be in the City, before a transit line can be constructed therein, we lost no time in making the maps in the proceedings to open Liberty Avenue, Campion Street and Sutphin Road. Through the first, the Brooklyn Rapid Transit is extending its elevated line from the Brooklyn Borough Line to Lefferts Avenue, and through the second and third, the Manhattan and Queens Traction Company is to reconstruct and extend its trolley line.

In the Liberty Avenue proceeding, the completed draft damage and profile maps, and an amended rule map were forwarded from this office in May, and shortly thereafter approved by the Board of Estimate and Apportionment. The Commissioners in this proceeding have, therefore, all the data necessary from this office, to enable them to hold their hearings

In the case of Campion Street and Sutphin Road, the Board of Estimate and Apportionment passed upon July 30, 1914, a resolution to acquire title, and to pave the way for an early vesting of title, instructed the Corporation Counsel to apply for the appointment of Commissioners immediately upon receipt of the rule maps properly certified. It, therefore, devolved upon this Bureau to at once make the rule maps. On August 13th, we forwarded these maps, and upon August 27th, they were approved by the Board of Estimate and Apportionment, which, at the same time, passed a resolution vesting title to all of Campion Street, and to about one-third of Sutphin Road, effective upon the filing of oaths of Commissioners.*

The proceeding to acquire title to East River Park is worthy of note. All of the maps in this proceeding, except the final damage and benefit, were forwarded from this office in 1913. The final damage and benefit maps were forwarded upon October 22nd this year. In this proceeding (also in others) the Corporation Counsel called upon this Bureau for witnesses to give expert testimony.

With a view of lessening the cost of the final damage maps and the benefit maps, we are to have them printed—the final damage maps from the draft damage map, and the benefit maps from a draft benefit map. We have been studying a means of doing this for some time, and believe that the plan we now have will prove feasible, and result in considerable economy. These final maps are of a uniform size of 18 in. x 11 in., and are bound in a book with the findings of the street opening commissioners. Heretofore, they have been made by draughtsmen. In next year's report, it will probably be possible to give you a comparison between the cost of the two methods. We have arranged also to utilize the Sewer Bureau's benefit maps, in the cases where their needs for these maps have antedated ours. This should further lessen the cost of street opening maps, besides preventing duplication by this Bureau of work already done by the Sewer Bureau.

GRADES.

In the 1913 report of this Bureau, the need for grade charts was mentioned. This year we started their preparation. The scheme of their preparation was determined upon at a conference with the Deputy Chief Engineer of the Board of Estimate and Apportionment. They are to be of the same size and bear the same number as our final section maps. They will give in detail the grades on curb and house-line, and at all street intersections; also intermediate grades within the block, where necessary. They will be adopted by the Board of Estimate and Apportionment and filed in the offices of record similar to the final sections, and thereafter there can be no differences of side line grades, caused by different methods of interpretation used by private surveyors in reducing from the center line grade.

FIELD WORK.

During 1914, the surveying parties completed surveys for twelve final section maps, and the surveys for twelve others are now under way. Of the completed sections, three were in the Third Ward, four in the Fourth Ward, and five in the Fifth Ward; of those now under survey four are in the Third Ward, six in the Fourth Ward, and two in the Fifth Ward. In addition to the surveys for final sections, numerous others were made for special final maps, and for alteration maps.

DEDICATIONS.

The number of opinions of dedications rendered by the Corporation Counsel for streets in this Borough during 1914 was 124, totaling 221,140 linear feet. In last year's report, the average cost of a street opening proceeding was given as about \$2 per foot of center line. An analysis of more recent proceedings shows this figure to be

^{*}Oaths filed December 30, 1914.

increasing. Thus is the importance of applying the principle of dedication to every street possible further evidenced.

Attention was called in last year's report to the fact that the Corporation Counsel was restricting the dedication of streets for which there was no final map to subsurface improvements. Following representations made to him by this Bureau of the illogicalness of such dedications, he now renders opinions that allow for full street improvements, conditional only on the later inclusion of the street in the final map.

OLD RECORDS.

The efforts of this Bureau to have the old records, now in the custody of the Comptroller, of the several civil subdivisions of Queens extant prior to consolidation, copied and indexed, have at last borne fruit. While our requests for an issue of special revenue bonds to be expended under our direction for copying these records were denied, the Comptroller's office, appreciating their importance, undertook to copy them at the expense of that office. When the work is completed, we are to have copies, and will then be in a position to make a systematic study of the titles to old streets, and to quote incontrovertible evidence of dedication in many doubtful cases.

CESSIONS.

This Bureau is ever ready and willing to assist property owners in ceding the street-bed in front of their property to the City, thereby escaping assessment (except where buildings are taken) for its legal opening. Property owners are not alive to the importance of ceding their streets to the City. They seem obsessed with the idea that the City will pay for it. Whereas, as a matter of fact, they receive nothing, unless buildings or virgin land is taken, and then, it is not the City, but their neighbors that pay. As mentioned under dedications, the cost of street opening proceedings is increasing, so it behooves property owners to take a more active interest in this matter.

BULKHEAD LINES.

The computations for the new bulkhead lines of Newtown Creek, following the tangential plan now used by the New York Harbor Line Board, were completed, and for its tributaries, Maspeth Creek and Dutch Kills Basin, the bulkhead lines were established. A map showing these new bulkhead lines will shortly be transmitted to the authorities for final action.

QUEENSBORO BRIDGE,

In accordance with your instructions, this Bureau made a study of Queensboro Bridge, to determine a means whereby the subway trains of the New York Municipal Railway Corporation (B. R. T.) could be accommodated thereon, without a reduction in the width of the vehicular roadway. The result of our study was submitted to you in a report (accompanied by sketches) dated June 12, 1914. In this report a scheme was set forth for accomplishing the purpose sought, which was considered practicable, and was favorably considered by the Bridge Department, the Public Service Commission and the Municipal Railway Corporation. In brief, the plan we proposed was to use the inner trolley tracks, now used solely by the New York and Queens County Railway Company, by the Third Avenue Railway Company and the Manhattan and Queens Traction Company also, and to run the subway trains on the outer tracks, now used by the two last-mentioned companies. The structural changes to the bridge necessary to enable these outer tracks to carry the larger and heavier subway cars and trains were sufficiently investigated to prove that they would be neither costly nor difficult: The final disposition of our scheme is, as you know, still in abeyance, pending the determination of the economy of extending the subway as a tunnel under the river, thereby saving

the cost of raising the trains from the low level of the subway to that of the bridge, and doing, once for ail, what many claim the influx of traffic into Queens will necessitate at an early date.

THE PUBLIC.

To better serve the interests of the public, and to promote the welfare of the Borough or Queens, we are always ready and willing to consider and to apply, where practicable, suggestions and criticisms by the public. And for the use of the public, all the maps and information in the possession of this office are at their disposal. Lithograph copies of all the more important maps can be purchased at the nominal price fixed by the Board of Estimate and Apportionment; blue prints of the maps which have not been lithographed can be had for the cost of printing, or sketches can be made by anyone. All the information concerning street titles and the procedure for ceding and dedicating them to the City can also be had at this Bureau.

OFFICE ORGANIZATION.

The employees of the Topographical Bureau on December 31, 1914, numbered 109 technical men, 40 per diem men and a clerical force of 5—total 154. The total cost for maintenance for the year 1914 was \$229,944.75—\$197,845.19, chargeable to the "Budget" or to "Corporate Stock," and \$32,099.56 chargeable to Street and Park Opening Fund.

A few words regarding the organization of the Topographical Bureau may facilitate a better understanding of the details contained in the following pages of the report. The work of this office falls naturally into two divisions: (1) A division charged with the preparation of the official map of the Borough of Queens, referred to in this report as the "Borough Map Division"; and (2) a division charged with the preparation of the maps necessary in street opening proceedings, referred to in the report as the "Street Opening Division."

The "Borough Map Division" is further subdivided into three corps:

Monumenting Corps: Charged with all the surveys and field work incidental to the preparation of the final map and the monumenting of the Borough.

Computing Corps: Charged with all the computations incidental to the preparation of the final map of the Borough.

Draughting Corps: Charged with all the draughting required to prepare the final map of the Borough.

The "Street Opening Division" is subdivided into two corps:

Surveying Corps: Charged with all the field work incidental to the preparation of the maps necessary in street opening proceedings.

Office Corps: Charged with all the computations and draughting required to prepare the maps necessary in street opening proceedings.

In addition to the several corps mentioned above, we have a small corps engaged in gathering data, and in making reports relative to the legal status of the streets of the Borough.

The details tabulated in the following pages are arranged, beginning on page 6, according to the work performed by these several corps, and in the order in which they are mentioned above. A complete index will be found on pages 44-45 of this report.

In conclusion I wish to state that the conduct of this Bureau is predicated upon the fact that the full efficiency and ideals of your administration can only be realized by actively and heartily co-operating with the citizens, taxpayers and business men of the Borougn of Queens.

TENTATIVE MAPS APPROVED BY THE BOARD OF ESTIMATE AND APPORTIONMENT.

Black Stump—Bounded approximately by Flushing River, Fowler Street, Peck Avenue, 153d Street (Rose Street), Oak Avenue, 164th Street (Renwick Avenue),

Fresh Meadow Road, North Hempstead Turnpike, Rosedale Boulevard, Grand Central Parkway, Midland Parkway, Hillside Avenue, Kew Gardens Road, Riverside Avenue and 69th Avenue. (T. B. No. 449.)

Flushing River—Bounded approximately by Riverside Avenue, Unity Street, 120th Street, Lurting Street, Flushing River, Jackson Avenue, Lawrence Street, Amity Street, Delong Street, Sanford Avenue, Flushing River and Rodman Street. (T. B. No. 489.)

Final Sections (Atlas Sheets) Approved by the Board of Estimate and Approxionment.

†No. 31—Bounded approximately by the Brooklyn Borough Line, the Evergreen Branch of the Long Island Railroad and the Manhattan Beach Division of the Long Island Railroad.

†No. 44—Bounded approximately by Woodhaven Avenue, Cornell Street, Orville Street, Fleet Street, Thornton Street, Rocton Street, the Main Line Division of the Long Island Railroad, Greenway Terraces, Middlemay Place, Bow Street, Slocum Crescent, Continental Avenue, Metropolitan Avenue, Orr Place, Olcott Street, Self-ridge Street and Nansen Street.

No. 115—Bounded approximately by North Conduit Avenue, Boyd Avenue, Stanley Avenue, Oswego Street, Wortman Avenue, Magra Street, Cozine Avenue, Kennebec Street, Fairfield Avenue, Iroquois Street, Vandalia Avenue, Sapphire Street, Fairfield Avenue and the Brooklyn Borough Line.

No. 123—Bounded approximately by Freedom Avenue, Liberty Avenue, Portland Avenue, Kimball Avenue, Napier Avenue, Jerome Avenue, Hamilton Avenue, Kimball Avenue, Roanoke Avenue, Ohio Street, Suwanee Avenue, Birch Street, Tuckahoe Avenue, Walnut Street, Ulster Avenue, Cedar Avenue, Sutter Avenue, Peconic Avenue and Rockaway Boulevard.

No. 125—Bounded approximately by Iroquois Street, Fairfield Avenue, Merrimac Avenue, Wortman Avenue, Boyd Avenue, South Conduit Avenue, Galveston Avenue, Cozina Avenue, Channel Street, Vandalia Avenue, Cohancy Avenue, Dunham Avenue, Killarney Avenue, Flynn Avenue, Woodhaven Avenue, Grimm Avenue, Potomac Street, Egan Avenue, Merrimac Avenue and Dunham Avenue.

No. 126—Bounded approximately by Missouri Street, Rockaway Boulevard, Hamilton Avenue, Ulster Avenue, Church Street, Tuckahoe Avenue, Neosho Street, Suwanee Avenue, Quebec Street, Tuckahoe Avenue, Shoshone Street, Ulster Avenue, Maure Avenue, Vistula Avenue, Atfield Avenue, Yukon Avenue, Warren Street, Sutter Avenue, Shoshone Street, Dumont Avenue, Panama Street and Blake Avenue.

No. 127—Bounded approximately by Passaic Street, Roanoke Avenue, Miriam Avenue, Liberty Avenue, Baker Avenue, Blanco Place, Van Wyck Avenue, Warburton Avenue, Atfield Avenue, Vistula Avenue, Warren Street, Ulster Avenue, Shoshone Street, Tuckahoe Avenue, Ouebec Street and Suwanee Avenue.

No. 175—Bounded approximately by Peconic Avenue, Greenwood Avenue, Dumont Avenue, Cedar Avenue, Blake Avenue, Lefferts Avenue, Dumont Avenue, Raritan Street, North Conduit Avenue, Panama Street and Fairfield Avenue.

FINAL MAPS APPROVED BY THE BOARD OF ESTIMATE AND APPORTIONMENT.

Map establishing the lines and grades of Yale Avenue, from Hillside Avenue to Jamaica Avenue. (T. B. No. 370.)

Map establishing the lines and grades of Wainscott Avenue, from Beechhurst Avenue to Bell Awenue. (T. B. No. 415.)

Map showing the street system for the territory bounded by Jamaica Avenue, Ezra Street, Archer Street and Van Wyck Avenue. (T. B. No. 418.)

[†] Readoption, necessitated by modifications of previously adopted street system.

Map establishing a street system for the Auburndale Section. (T. B. No. 437.)

Map establishing the lines and grades of Queens Boulevard, through Maple Grove Cemetery. (T. B. No. 451.)

Map establishing the lines and grades of Sutphin Road, from Jamaica Avenue to Hillside Avenue. (T. B. No. 456.)

ALTERATION MAPS APPROVED BY THE BOARD OF ESTIMATE AND APPORTIONMENT.

Map showing a change in the territory bounded by Baxter Avenue, Roosevelt Avenue, 37th Street, Hunt Street, Junction Avenue, Lurting Avenue, Çard Place, South Railroad Avenue, Barnwell Street, Queens Boulevard, South Railroad Avenue, Lauronson Place, Queens Boulevard, Fitch Avenue, Leon Flace and Broadway. (T. B. No. 302.)

Map altering the grades of *Greenpoint Avenue*, from Starr Avenue to Newtown Creek. (T. B. No. 340.)

Map altering the lines of *Queens Boulevard*, from Van Loon Place to Caldwell Avenue. (T. B. No. 350.)

Map establishing a *Public Place*, at Borden Avenue and Young Street. (T. B. No. 354.)

Map establishing the lines and grades of Rostrom Avenue and Amityville Avenue. (T. B. No. 359.)

Map altering the grades of Ziegler Avenue, from Jackson Avenue to State Street. (T. B. No. 363.)

Map altering the grades of *McKinley Avenue*, from Central Avenue to Myrtle Avenue. (T. B. No. 365.)

Map altering the lines of Eighth Street, from Hayes Avenue to Broadway. (T. B. No. 373.)

Map altering the lines of *Milton Street*, near Flushing Avenue. (T. B. No. 378.)

Map altering the lines of *Trowbridge Street*, from Van Alst Avenue to Willow Street. (T. B. No. 379.)

Map establishing the lines of Ziegler Avenue, across the Long Island Railroad. (T. B. No. 381.)

Map altering the lines of Calanus Avenue, from Delafield Street to Grand Street. (T. B. No. 389.)

Map altering the grade of *Union Street*, from Donnelly Avenue to the Long Island Railroad. (T. B. No. 398.)

Map altering the lines of Puritan Avenue, from Burns Avenue to Queens Boulevard. (T. B. No. 399.)

Map altering the lines of Yellowstone Avenue, from Groton Street to Queens Boulevard. (T. B. No. 400.)

Map altering the grades of Carolin Street, from Foster Avenue to Barnett Avenue. (T. B. No. 402.)

Map altering the grades of Myrtle Avenue, from Ridgewood Place to Martha Place. (T. B. No. 403.)

Map altering the lines of Clermont Avenue, from Maspeth Avenue to Fresh Pond Road. (T. B. No. 406.)

Map establishing the lines and grades of Interborough Parkway, from Eastern Parkway to Forest Park. (T. B. No. 410.)

Map altering the lines of Stanhope Street, from Amory Avenue to Metropolitan Avenue. (T. B. No. 411.)

Map altering the lines and grades of Maspeth Avenue, from Maurice Avenue to Clermont Avenue. (T. B. No. 413.)

Map altering the lines of Woodhaven Avenue, from Jamaica Avenue to Atlantic Avenue, (T. B. No. 414.)

Map establishing a crown in 42nd Street, between Sigel Avenue and Schurz Avenue. (T. B. No. 417.)

Map altering the grades of Kingsland Avenue, from 42nd Street to Luydig Street. (T. B. No. 420.)

Map altering the grades of Seventh Avenue, from Jamaica Avenue to

Grand Avenue. (T. B. No. 421.)

Map showing a change in the street system bounded by North Villa Street, Ridgewood Avenue, Maure Avenue, Sycamore Place, Atfield Place, Long Island Railroad, Van Wyck Avenue, Garden Street, South Morris Avenue, Long Island Railroad, Wisner Place, North Wickes Street and Fulton Place. (T. B. No. 422.)

Map altering the grades of Astoria Avenue, from Eighth Avenue to

Steinway Avenue. (T. B. No. 423.)

Map altering the gradess of Lefferts Avenue, from Tuckahoe Avenue to Vistula Avenue. (T. B. No. 431.)

Map altering the lines of *Queens Boulevard*, from Caldwell Avenue to Hillside Avenue. (T. B. No. 432.)

Map altering the lines and grades of Franklin Street, from Remsen Street to Willow Street. (T. B. No. 434.)

Map altering the lines of *Richard Avenue*, from Edsall Avenue to Central Avenue. (T. B. No. 435.)

Map reducing the width of 46th Street, from Astoria Avenue to Roosevelt Avenue. (T. B. No. 438.)

Map altering the width of Sutphin Road, from Rocton Street to Rockaway Boulevard. (T. B. No. 439.)

†Map altering the lines of *Elderts Lane*, from Jamaica Avenue to Atlantic Avenue. (T. B. No. 441.)

Map altering the grades of Cypress Avenue, from Decatur Street to Armand Place. (T. B. No. 442.)

Map altering the lines of *Flushing River*, from Gilroy Avenue to Livingston Street. (T. B. No. 443.)

Map altering the lines of Bodine Street, from Vernon Avenue to Sherman Place. (T. B. No. 444.)

Map altering the lines of Queens Boulevard, from Booth Street to Continental Avenue. (T. B. No. 445.)

Map altering the grades of *Harvard Place*, from Canonbury Road to Jamaica Avenue. (T. B. No. 446.)

Map altering the lines of Spangler Street and Smith Street, from Lambertville Avenue to Ulster Avenue. (T. B. No. 447.)

Map fixing the curb lines on Second Avenue and Flushing Avenue, (T. B. No. 450.)

Map altering the grades of Bathgate Avenue, from Mitchell Avenue to Bayside Avenue. (T. B. No. 454.)

Map altering the grades of Murray Street, from Alice Street to Jackson Avenue. (T. B. No. 464.)

Map altering the lines of Corona Avenue, from Broadway to Maurice Avenue. (T. B. No. 472.)

Map altering the lines of *Corona Avenue*, from Alstyne Avenue to Hanover Avenue. (T. B. No. 473.)

Map altering the grades of *Decatur Street*, from Irving Avenue to Wyckoff Avenue. (T. B. No. 481.)

Map altering the lines of Bayreuth Street, from Murray Street to Dutchess Street, (T. B. No. 486.)

Map altering the lines of Maywood Street, from Maywood Street to Medford Street, (T. B. No. 491.)

[†]Prepared jointly by the Boroughs of Brooklyn and Queens.

BOROUGH MAP DIVISION.

MONUMENTING CORPS.

Monumenting Surveys-Completed.

New York Avenue-South Street to Rockaway Boulevard. No monuments set.

Bergen Avenue-Hillside Avenue to Highland Avenue. No monuments set.

Sutphin Road—Jamaica Avenue to Hillside Avenue. No monuments set.

Palatina Avenue—Palo Alto Avenue to Hillside Avenue. No monuments set.

Bergen Avenue-Jamaica Avenue to Hillside Avenue. No monuments set.

Hollis Park and Farmers Avenue-South to South Street. Monuments set.

Jamaica Map-Tie-lines on Hillside Avenue.

Jamaica Map-Tie-lines on Yukon Avenue and Ulster Avenue.

Jamaica Map-Tie-lines on Rockaway Boulevard and New York Avenue.

Tie-line, from Jamaica to Queens, via Long Island Railroad.

Hollis (Map No. 1). Monuments set.

Kew Gardens and vicinity. Monuments set in part.

Final Sections 127, 128, 129, 136 and 137, Jamaica; 54, 55 and 56 College Point, and 216, 217, 218, 226, 227, and a portion of 202, Rockaway.

Monumental Surveys-Not completed.

Grand Central Parkway-Monuments set (in part).

Final Sections 61, 68, 69 and 75, Flushing, and 219 and 230, Rockaway.

Surveys and Alterations and Additions-Completed.

Section bounded by Myrtle Avenue, Cooper Street, Proctor Street and Trotting Course Lane. No monuments changed.

Sutphin Road—Lincoln Avenue to Rockaway Boulevard. No monuments changed. Centerville Avenue—Rockaway Boulevard to Long Island Railroad.

Rockwell Place, Etc.-Monuments reset.

Woodhaven Avenue—Jamaica Avenue to Old South Road. No monuments changed.

Peartree Avenue—Union Avenue and Centerville Avenue. No monuments changed.

Prospect Place-Putnam Avenue to Cornelia Street.

Monuments drilled on Liberty Avenue, Kimball Avenue, Jerome Avenue, Broad Street, Laurel Hill Boulevard, Columbia Avenue, Hyatt Avenue, Firth Avenue, Caldwell Avenue, Plover Place, Grand Street, Eighth Street, Jackson Avenue, Cypress Avenue and Cooper Avenue.

Traffic Street and vicinity-Monuments reset.

Woodhaven Avenue—Jamaica Avenue to Atlantic Avenue. Monuments not reset. Sackett Street—Monuments reset.

Queens Boulevard—Grand Street to Caldwell Avenue. Monuments not reset.

Sutphin Road—Lambertville Avenue to Rockaway Boulevard. Monuments set (in part).

Maspeth Avenue-Maurice Avenue to Marabel Avenue. Monuments not reset.

Clermont Avenue—Maspeth Avenue to Mt. Olivet Avenue. Monuments not reset. Surveys for Alterations and Additions—Not completed.

Jamaica Avenue-Lefferts Avenue to Grand Street. Monuments not reset.

Final Traversing—Completed.

Final Sections 127, 128 and 129, Jamaica.

Jamaica Map tie-lines.

Kew Gardens and vicinity.

Final Traversing-Not completed.

Final Sections 136 and 137, Cedar Manor.

Grand Central Parkway-

Vay Wyck Avenue and Maure Avenue. Grade levels. School Site, Lincoln Avenue and Rockaway Boulevard.

Bergen Avenue, corner Hillside Avenue.

Howell Avenue-Woodside Avenue to Fifth Street.

Harmon Street-Grandview Avenue to Forest Avenue

Grand Avenue-Ninth Avenue to Tenth Avenue.

Park Lane-Excavation test.

Jamaica survey tie-in.

New York Avenue-South Street to Oak Street. Elevation.

Ocean Avenue-Kimball Avenue to Rockaway Boulevard. Building location.

Sutphin Road-Hillside Avenue to Jamaica Avenue. Rule map test.

51st Street Sewer-Line and grade test.

Jamaica Avenue and Park Street-Levels for grade change.

Astoria street levels for grade revision.

South Aqueduct and Venetia Park tie-in.

Leveling-Completed.

Franklin Street—Main Street and Trowbridge Street, and Remsen Street to Van Alst Avenue.

DISTRICT SOUTH OF THOMSON AVENUE AND EAST OF MEADOW STREET.

 $Newtown\ Road$ —Jackson Avenue to Broadway, and Jackson Avenue to Burnside Avenue.

MISCELLANEOUS SURVEYS.

For Grade Charts—Hallett Street, Howland Street, Merchant Street, Crescent Street, Goodrich Street, Lawrence Street, Second Avenue, Fourth Avenue, Pleasure Avenue, Van Alst Avenue, Chauncey Street, Park Place, Shore Road, Wolcott Avenue, Ditmars Avenue, Bermel Place, McClellan Place, Potter Avenue, Davidson Place, Munson Place, Phillips Place, Woolsey Avenue, Seventh Avenue, Steinway Avenue, Eleventh Avenue, Twelfth Avenue, Theodore Street, Purdy Street, South Street, Wilson Avenue, Vandeventer Avenue and Newtown Road.

For Bench Details, Etc.—Rosedale Manor, South Rosedale, Walbridge, Three Mile Mill Road, Idlewild, Springfield Park, Jamaica South, South Ozone Park, Bergen Landing Road, Jamaica Park South, Bayview Landing, Springfield Dock, Kissam Lane, Jamaica Creeks, Nos. 1, 2, and 3; Annahurst, Jamaica Court, Jamaica Villa, Rockaway Terrace, Smithfield Park, Jamaica Park, Baisley Park, South Ozone Park, Ramblersville, Richmond Hill Park, Bergen Heights, Glen Morris, Boulevard Terrace, Dunton Lodge and Queens Manor.

Monument Tests Made—Newtown Road, Vandeventer Avenue, Grand Avenue, Franklin Street, Park Layout at Hoyt and Flushing Avenue; section bounded by Borden Avenue, Oliver Street, Meadow Street, Thomson Avenue and Van Dam Street; Freeman Avenue, Hamilton Street, Crescent, Flushing Avenue, Grand Avenue, Nott Avenue, Harris, Fourteenth Street, Ridge Street, Fifth Street, Burnside Avenue and Stryker Avenue.

For the new map of the City now being made by the Board of Estimate and Apportionment, traverses were run from Far Rockaway and Rosedale, via the Long Island Railroad, to Valley Stream, and from Great Neck via Broadway, Long Island Railroad, Plandome Road and South Road to Port Washington. The traverses were in each case verified by triangulation, and the necessary computations made.

COMPUTING CORPS.

Area of monument traverses adjusted	1,427	acres
Area of block dimensions computed	1,058	acres
Linear feet of monument traverses adjusted	419,700	feet
Linear feet involved in alterations	1,458,960	feet
Linear feet of street location computed	18,400	feet

Linear feet of general traverses adjusted	169,710	feet
Linear feet of bulkhead computed	47,200	feet
Special Maps Prepared.		
New York Avenue	58,600	feet
Bergen Avenue	1,740	feet
Sutphin Road	4,310	feet
Palatina Avenue	1,660	feet
Eighth Avenue	15,140	feet
Grand Central Parkway—Layout	20,000	feet
Liberty Avenue (Catherine Street)	730	feet

DRAUGHTING CORPS.

FINAL SECTIONS—COMPLETED AND FORWARDED TO THE BOARD OF ESTIMATE AND APPORTIONMENT FOR APPROVAL.

No. 1-Bounded approximately by Calvary Cemetery, Laurel Hill Boulevard, Halle Avenue, Hull Avenue, Debevoise Avenue and Newtown Creek,

No. 31-Bounded approximately by the Brooklyn Borough Line, the Evergreen Branch of the Long Island Railroad and the Manhattan Beach Division of the Long Island Railroad.

No. 44—Bounded approximately by Woodhaven Avenue, Cornell Street, Orville Street, Fleet Street, Thornton Street, Roxton Street, the Main Line Division of the Long Island Railroad, Greenway Terraces, Middlemay Place, Bow Street, Slocum Crescent, Continental Avenue, Metropolitan Avenue, Orr Place, Olcott Street, Selfridge Street and Nansen Street.

No. 48-Bounded approximately by the East River, Lange Place, Chelsea Street, Villaview Road, Eldorado Street, Boston Street, Haviland Street, Gower Avenue, Jameson Street, Inman Avenue, Lebanon Street, Kinney Avenue, Kelford Street, Lessing Avenue, Jameson Street, Mulford Avenue and Flushing Bay.

No. 114—Bounded approximately by the Brooklyn Borough Line (Mill Creek and Spring Creek), Fairfield Avenue, Emerald Street, Vandalia Avenue, Genesee

Street, Dunham Avenue, Emerald Street and Egan Street.

No. 115-Bounded approximately by North Conduit Avenue, Boyd Avenue, Stanley Avenue, Oswego Street, Wortman Avenue, Niagara Street, Cozine Avenue, Kennebec Street, Fairfield Avenue, Iroquois Street, Vandalia Avenue, Sapphire Street, Fairfield Avenue and the Brooklyn Borough Line.

No. 123—Bounded approximately by Freedom Avenue, Liberty Avenue, Portland Avenue, Kimball Avenue, Napier Avenue, Jerome Avenue, Hamilton Avenue, Kimball Avenue, Lefferts Avenue, Roanoke Avenue, Ohio Street, Suwanee Avenue, Birch Street, Tuckahoe Avenue, Walnut Street, Ulster Avenue, Cedar Avenue, Sutter Avenue, Peconic Avenue and Rockaway Boulevard.

No. 125—Bounded approximately by Iroquois Street, Fairfield Avenue, Merrimac Avenue, Wortman Avenue, Boyd Avenue, South Conduit Avenue, Galveston Avenue, Cozine Avenue, Channel Street, Vandalia Avenue, Cohancy Avenue, Dunham Avenue, Killarney Avenue, Flynn Avenue, Woodhaven Avenue, Grimm Avenue, Potomac Street, Egan Avenue, Merrimac Avenue and Dunham Avenue.

No. 127-Bounded approximately by Passaic Street, Roanoke Avenue, Miriam Avenue, Liberty Avenue, Baker Avenue, Blanco Place, Van Wyck Avenue, Warburton Avenue, Atfield Avenue, Vistula Avenue, Warren Street, Ulster Avenue, Shoshone Street, Tuckahoe Avenue, Quebec Street and Suwanee Avenue.

No. 175-Bounded approximately by Peconic Avenue, Greenwood Avenue, Dumont Avenue, Cedar Avenue, Blake Avenue, Lefferts Avenue, Dumont Avenue, Raritan Street, North Conduit Avenue, Panama Street and Fairfield Avenue.

No. 231—Eounded approximately by Beach 32nd Street, Dickens Avenue, Beach 29th Street north, Ocean Crest Avenue, Beach 25th Street, Cornaga Avenue, Beach 24th Street north, Bay Park Avenue, Dickens Avenue, Mott Avenue, Caffrey Street, Beach 17th Street, Seagirt Avenue, Beach 19th Street, Ocean Promenade, Beach 22nd Street, Seagirt Avenue, Beach 25th Street, Edgemere Avenue, Beach 28th Street, Deerfield Road, Beach 30th Street north and Brookhaven Avenue.

Final Sections—Prepared and Forwarded to the Board of Estimate and Apportionment for Certification and Filing.

No. 4—Bounded approximately by Gosman Avenue, Jackson Avenue, Sixteenth Avenue, Patterson Avenue, Seventh Street, Burnside Avenue, Ninth Street, Jackson Avenue, Seventh Street, Broadway, Sixth Street, Stryker Avenue, Fifth Street, Woodside Avenue and Middleburg Avenue.

No. 44—Bounded approximately by Woodhaven Avenue, Cornell Street, Orville Street, Fleet Street, Thornton Street, Roxton Street, Main Line Division of the Long Island Railroad, Greenway Terraces, Middlemay Place, Box Street, Slocum Crescent, Continental Avenue, Metropolitan Avenue, Orr Place, Olcott Street, Selfridge Street and Nansen Street.

No. 46—Bounded approximately by Johanna Place, Metropolitan Avenue, Rodman Avenue, Greenway Terraces, Middlemay Circle, Bay Street, Burns Street, Ascan Avenue, Burns Street, Puritan Avenue, Austin Street, Quentin Street, Grenfell Avenue, Onslow Place, Park Lane, Abington Road, Audley Street, Mayfair Road, Park Lane, Metropolitan Avenue and Union Turnpike.

No. 122—Bounded approximately by Cedar Avenue, Beaufort Avenue, Walnut Street, Atlantic Avenue, Maure Avenue, Chichester Avenue, Baker Avenue, Kimball Avenue, Frost Avenue, Liberty Avenue, Miriam Avenue, Roanoke Avenue, Neosho Street, Liberty Avenue, Church Street, Kimball Avenue, Walnut Street and Jerome Avenue.

No. 123—Bounded approximately by Freedom Avenue, Liberty Avenue, Portland Avenue, Kimball Avenue, Napier Avenue, Jerome Avenue, Hamilton Avenue, Kimball Avenue, Lefferts Avenue, Roanoke Avenue, Ohio Street, Suwanee Avenue, Birch Street, Tuckahoe Avenue, Walnut Street, Ulster Avenue, Cedar Avenue, Sutter Avenue, Peconic Avenue and Rockaway Boulevard.

No. 126—Bounded approximately by Missouri Street, Rockaway Boulevard, Hamilton Avenue, Ulster Avenue, Church Street, Tuckahoe Avenue, Neosho Street, Suwanee Avenue, Quebec Street, Tuckahoe Avenue, Shoshone Street, Ulster Avenue, Maure Avenue, Vistula Avenue, Atfield Avenue, Yukon Avenue, Warren Street, Sutter Avenue, Shoshone Street, Dumont Avenue, Panama Street and Blake Avenue.

No. 175—Bounded approximately by Peconic Avenue, Greenwood Avenue, Dumont Avenue, Cedar Avenue, Blake Avenue, Lefferts Avenue, Dumont Avenue, Raritan Street, North Conduit Avenue, Panama Street and Fairview Avenue.

Final Maps—Completed and Forwarded to the Board of Estimate and Apportionment for Approval,

Map establishing the lines and grades of Sutphin Road, from Jamaica Avenue to Hillside Avenue. (T. B. No. 46.)

Map establishing a street system for the *Queens-Hollis* section. (T. B. No. 458.) Map establishing the lines and grades of 166th Street, from Hillside Avenue to Gilman Avenue. (T. B. No. 459.)

Map establishing the lines and grades of New York Avenue, from South Street to Basley Avenue. (T. B. No. 470.)

Map establishing a street system for the *Auburndale Section*. (T. B. No. 437.) Map establishing the lines and grades of 191st Street, from Hillside Avenue to Palo Alto Avenue. (T. B. No. 480.)

Map establishing the lines and grades of New York Avenue, from Baisley Avenue to Rockaway Road. (T. B. No. 490.)

Map establishing the lines and grades of *Boerum Avenue*, from Bayside Avenue to Whitestone Division of the Long Island Railroad. (T. B. No. 487.)

Final Maps—Prepared and Forwarded to the Board of Estimate and Apportionment for Certification and Filing.

Map establishing the lines and grades of Wainscot Avenue, from Beechhurst Avenue to Bell Avenue. (T. B. No. 415.)

Map establishing the lines and grades of Beach Channel Drive, from Beach 85th Street to Beach 116th Street. (T. B. No. 394.)

Map establishing the street system for the territory bounded by Jamaica Avenue, Ezra Street, Archer Street and Van Wyck Avenue. (T. B. No. 418.)

Map establishing the lines and grades of Yale Avenue, from Jamaica Avenue to Hillside Avenue. (T. B. No. 370.)

Map establishing the lines and grades of Sutphin Road, from Hillside Avenue to Jamaica Avenue. (T. B. No. 456.)

ALTERATION MAPS—COMPLETED AND FORWARDED TO THE BOARD OF ESTIMATE AND APPROVAL.

Map altering the grades of *Grand Avenue*, from Steinway Avenue to Eleventh Avenue. (T. B. No. 430.)

Map altering the grades of Lefferts Avenue, from Tuckahoe Avenue to Vistula Avenue. (T. B. No. 431.)

Map altering the lines and grades of Franklin Street, from Remsen Street to Willow Street. (T. B. No. 434.)

Map showing a change in the street system, by closing Trains Meadow Road, from Jackson Avenue to Elmhurst Avenue, (T. B. No. 429.)

Map altering the lines of *Queens Boulevard*, from Caldwell Avenue to Hillside Avenue, (T. B. No. 432.)

Map altering the grades of Ashland Street, from Diamond Street to Freedom Avenue. (T. B. No. 433.)

Map altering the lines of Richard Avenue, from Edsall Avenue to Central Avenue. (T. B. No. 435.)

Map altering the lines of Fulton Street, from Herald Avenue to Bedford Avenue. (T. B. No. 436.)

Map reducing the width of 46th Street, from Astoria Avenue to Roosevelt Avenue. (T. B. No. 438.)

Map altering the lines and grades of Maspeth Avenue, from Maurice Avenue to Clermont Avenue. (T. B. No. 413.)

Map altering the width of Sutphin Road, from Rocton Street to Rockaway Boulevard. (T. B. No. 439.)

Map showing four parcels of land at Clark Avenue, to be acquired for sewer easement. (T. B. No. 440.)

Map altering the grades of Cypress Avenue, from Decatur Street to Armand Place. (T. B. No. 442.)

Map altering the lines of *Flushing River*, from Gilroy Avenue to Livingston Street. (T. B. No. 443.)

Map altering the lines of *Polk Avenue*, from Junction Avenue to Baylies Street. (T. B. No. 424.)

Map altering the lines of *Queens Boulevard*, from Booth Street to Continental Avenue, (T. B. No. 445.)

Map altering the lines of *Bodine Street*, from Vernon Avenue to Sherman Place. (T. B. No. 444.)

Map altering the grades of *Harvard Place*, from Canonbury Road to Jamaica Avenue. (T. B. No. 446.)

Map altering the lines of Spangler Street and Smith Street, from Lambertville Avenue to Ulster Avenue. (T. B. No. 447.)

Map altering the *United States Pier* and *Bulkhead Lines* of Jamaica Bay, from Beach 116th Street to the Rockaway Beach Division of the Long Island Railroad. (T. B. No. 448.)

Map filing the curb lines on Second Avenue and on Flushing Avenue. (T. B. No. 450.)

Map establishing the lines and grades of Chickering Place, from Mitchell Avenue to Alice Place. (T. B. No. 452.)

Map altering the grades of *Bathgate Avenue*, from Mitchell Avenue to Bayside Avenue. (T. B. No. 454.)

Map establishing the lines and grades of Nassau Avenue, from Grand Street to Corinth Street. (T. B. No. 453.)

Map altering the grades of *Greenpoint Avenue*, from Starr Avenue to Newtown Creek. (T. B. No. 340.)

Map altering the grades of *Beddard Street*, from Parsons Avenue to Percy Street. (T. B. No. 455.)

Map altering the grades of California Avenue, from Jaggar Avenue to McDonald Street. (T. B. No. 460.)

Map altering the lines of Schurz Avenue, from Ditmars Avenue to Berrian Avenue. (T. B. No. 461.)

Map eliminating Frederick Street, from Garrison Avenue to Creek Street. (T. B. No. 462.)

Map altering the lines and grades of *Grand Avenue*, from 33rd Street to 40th Street. (T. B. No. 457.)

Map altering the grades of *Murray Street*, from Alice Street to Jackson Avenue. (T. B. No. 464.)

Map altering the lines of Columbine Avenue, from Laurel Hill Boulevard to Montgomery Avenue. (T. B. No. 463.)

Map altering the grades of *Steinway Avenue*, from Wolcott Avenue to Ditmars Avenue. (T. B. No. 466.)

Map altering the grades of Broadway, at 8th Street. (T. B. No. 465.)

Map altering the grades of Van Alst Avenue, from 13th Street to South Jane Street. (T. B. No. 467.)

Map altering the lines of Corona Avenue, from Broadway to Maurice Avenue. (T. B. No. 472.)

Map altering the grades of *Toledo Street*, from Gerry Avenue to Ivy Street. (T. B. No. 468.)

Map establishing the lines of Aurelia Place, from Flushing Avenue to Newtown Avenue. (T. B. No. 407.)

Map altering the lines of *Proctor Street*, from St. Germans Street to Edsall Avenue. (T. B. No. 469.)

Map altering the grades of Firth Avenue, from Whitlock Avenue to Dorothy Place. (T. B. No. 471.)

Map establishing the lines and grades of *Queens Boulevard*, through Maple Grove Cemetery. (T. B. No. 451.)

Map altering the street system of Ivanhoe Park. (T. B. No. 329.)

Map altering the lines and grades of *Corona Avenue*, from Alstyne Avenue to Hanover Avenue. (T. B. No. 473.)

Map establishing the angles on *Elderts Lane*, from Jamaica Avenue to Atlantic Avenue. (T. B. No. 474.)

Map eliminating Lurting Street, from Card Place to Corona Avenue. (T. B. Nd. 475.)

Map altering the grades of Front Street, from Borden Avenue to Newtown Creek. (T. B. No. 477.)

Map establishing the street lines and grades along the Lutheran Cemetery Branch of the Brooklyn Rapid Transit, from the Brooklyn Borough Line to Metropolitan Avenue. (T. B. No. 476.)

· Map altering the grades of *Decatur Street*, from Irving Avenue to Wyckoff Avenue. (T. B. No. 481.)

Map altering the lines of Justice Street, from Broadway to Junction Avenue. (T. B. No. 478.)

Map altering the lines of Bayreuth Street, from Murray Street to Dutchess Street. (T. B. No. 486.)

Map correcting a block dimension of Burrough Avenue, between Railroad Avenue and Garfield Street. (T. B. No. 484.)

Map altering the lines of 44th Street and 45th Street, from Sackett Street to Roosevelt Avenue. (T. B. No. 482.)

Map altering the lines of Maywood Street, from Carlisle Street to Medford Street, (T. B. No. 491.)

Map reducing the width of *Broadway*, from Baxter Avenue to Queens Boulevard. (T. B. No. 488.)

Map reducing the width of Maure Avenue, from Jamaica Avenue to Jerome Avenue. (T. B. No. 492.)

Map altering the lines of *Brevoort Street*, from Cuthbert Place to Metropolitan Avenue. (T. B. No. 494.)

Map altering the lines and grades of Yellowstone Avenue, from Colonial Avenue to Queens Boulevard. (T. B. No. 493.)

Map reducing the width of *Junction Avenue*, from Burnside Avenue to Corona Avenue, (T. B. No. 483.)

Map altering the lines of Vermont Avenue, from Highland Boulevard to Tappen Terrace. (T. B. No. 479.)

Map altering the grades of *Queens Boulevard*, from Grand Street to Hillside Avenue. (T. B. No. 495.)

Map altering the grades of Nelson Avenue, from Hulst Street to Madden Street. (T. B. No. 496.)

Map altering the lines of Lawn Avenue, Freedom Avenue and McCormack Avenue, from Roanoke Avenue to Liberty Avenue. (T. B. No. 498.)

Map establishing the lines of the streets crossing the Long Island Railroad (Montauk Division), between Forest Park and Jamaica Avenue. (T. B. No. 497.)

Map establishing the lines of Liberty Avenue, from Blakely Street to Carlisle Street. (T. B. No. 499.)

Map establishing the lines and grades of Rocton Street, from Van Wyck Avenue to Roseville Avenue. (T. B. No. 500.)

Map altering the lines of *Hancock Street*, from Brooklyn Borough Line to Wyckoff Avenue. (T. B. No. 502.)

Map altering the grades of Franklin Place, from Kissena Road to Macdonald Street. (T. B. No. 501.)

Alteration Maps—Proposed and Forwarded to the Board of Estimate and Apportionment for Certification and Filing.

Map altering the grades of *Queens Boulevard*, from Van Dam Street, to Grand Street. (T. B. No. 388.)

Map eliminating Rawson Street, Buckley Street and Moore Street, south of Jackson Avenue. (T. B. No. 397.)

Map altering the lines of Caspian Street, from Collins Avenue to Eliot Avenue. (T. B. No. 387.)

Map altering the lines of Atlantic Avenue, from Thrall Avenue to Spruce Street. (T. B. No. 404.)

Map altering the grade of Anable Avenue, at Hulst Street. (T. B. No. 401.)

Map altering the grades of *Liberty Avenue*, at the Rockaway Beach Division of the Long Island Railroad. (T. B. No. 405.)

Map altering the lines of Cornelia Street, from Myrtle Avenue to Cypress Avenue. (T. B. No. 386.)

Map altering the lines of Wurster Street, from Corona Avenue to Riverside Avenue. (T. B. No. 341.)

Map altering the lines of Medina Place, from Corona Avenue to Parcell Street. (T. B. No. 292.)

Map altering the grades of *Union Street*, from Donnelly Avenue to the Long Island Railroad. (T. B. No. 398.)

Map altering the lines of Eighth Street, from Hayes Avenue to Broadway. (T. B. No. 373.)

Map altering the lines of Calamus Avenue, from Delafield Street to Grand Street. (T. B. No. 389.)

Map showing a change in the street system bounded by North Villa Street, Ridgewood Avenue, Maure Avenue, Sycamore Place, Atfield Place, Long Island Railroad, Van Wyck Avenue, Garden Street, South Morris Avenue, Long Island Railroad, Wisner Place, North Wickes Street and Fulton Place. (T. B. No. 422.)

Map altering the lines of Woodhaven Avenue, from Jamaica Avenue to Atlantic Avenue. (T. B. No. 414.)

Map altering the lines of *Queens Boulevard*, from Van Loon Place to Caldwell Avenue. (T. B. No. 350.)

Map establishing the lines and grades of *Queens Boulevard*, through Maple Grove Cemetery. (T. B. No. 451.)

Map altering the Street System in the Elmhurst Section. (T. B. No. 302.)

Map altering the lines of *Queens Boulevard*, from Caldwell Avenue to Hillside Avenue. (T. B. No. 432.)

Map altering the lines and grades of Clermont Avenue, from Maspeth Avenue to Fresh Pond Road. (T. B. No. 406.)

Map altering the lines of *Queens Boulevard*, from Booth Street to Continental Avenue. (T. B. No. 445.)

Map establishing a public park at Young Street and Borden Avenue. (T. B. No. 354.)

Map altering the grades of Seventh Avenue, from Jamaica Avenue to Grand Avenue. (T. B. No. 421.)

Map altering the grades of Myrtle Avenue, from Ridgewood Place to Martha Place. (T. B. No. 403.)

Map altering the lines of Maspeth Avenue, from Maurice Avenue to Clermont Avenue. (T. B. No. 413.)

Map altering the lines of Yellowstone Avenue, from Croton Street to Queens Boulevard. (T. B. No. 400.)

Map establishing the lines and grades of Ziegler Avenue, from Amity Street to Donnelly Avenue. (T. B. No. 381.)

Map establishing the grades of *Lefferts Avenue*, from Tuckahoe Avenue to Vistula Avenue. (T. B. No. 431.)

Map establishing the lines and grades of Yale Avenue, from Hillside Avenue to Jamaica Avenue. (T. B. No. 370.)

Map altering the lines of Stanhope Street, from Amory Avenue to Metropolitan Avenue. (T. B. No. 411.)

Map reducing the width of *Bodine Street*, from Vernon Avenue to Sherman Place. (T. B. No. 444.)

Map altering the grades of McKinley Avenue, from Myrtle Avenue to Central Avenue. (T. B. No. 365.)

Map reducing the width of Sutphin Road, from Rocton Street to Rockaway Boulevard. (T. B. No. 439.)

Map altering the grades of Cypress Avenue, from Decatur Street to Armand Place, (T. B. No. 442.)

Map altering the lines of Milton Street, at Flushing Avenue. (T. B. No. 378.)

Map altering the lines of *Trowbridge Street*, from Willow Street to Van Alst Avenue. (T. B. No. 379.)

Map altering the lines of Franklin Street, from Remsen Street to Willow Street. (T. B. No. 434.)

Map altering the lines of *Richard Avenue*, from Edsall Avenue to Central Avenue. (T. B. No. 435.)

Map altering the grades of *Greenpoint Avenue*, from Newtown Creek to Starr Avenue, (T. B. No. 340.)

Map altering the grades of *Harvard Avenue*, from Canonbury Road to Jamaica Avenue. (T. B. No. 446.)

Avenue. (1. B. No. 440.)

Map establishing the lines and grades of *Interborough Parkway*, from Fresh Pond Road to Forest Park. (T. B. No. 410.)

Map establishing the lines and grades of Spangler and Smith Streets, from Lambertville Avenue to Ulster Avenue. (T. B. No. 447.)

Map altering the lines of Maywood Street, from Carlisle Street to Medford Street. (T. B. No. 491.)

Street. (T. B. No. 491.)

Map altering the grades of *Murray Street*, from Alice Street to Jackson Avenue.

(T. B. No. 464.)

Map altering the grades of *Bathgate Street*, from Mitchell Avenue to Bayside Avenue, (T. B. No. 454.)

Map altering the grades of *Decatur Street*, from Irving Avenue to Wyckoff Avenue. (T. B. No. 481.)

Map altering the lines of St. James Street and Corona Avenue, from Poyer Street to Broadway. (T. B. No. 472.)

FINAL SECTIONS-NOW BEING MAPPED.

No. 124—Vicinity of Rockaway Beach Division of Long Island Railroad and Centerville Avenue, Aqueduct.

No. 174-Vicinity of Crum Creek, Aqueduct.

No. 176-Vicinity of Hawtree Creek, Aqueduct.

No. 177-Vicinity of Flat Creek, Aqueduct.

No. 188-Vicinity of Bergen Creek, Aqueduct.

No. 189-Vicinity of Bergen Landing Road and Old South Road, Aqueduct.

No. 313-Vicinity of Newtown Creek and Review Avenue, L. I. City.

No. 314-Vicinity of Borden Avenue and Van Dam Street, L. I. City.

MISCELLANEOUS MAPS, SKETCHES, PROFILES, STUDIES, ETC., MADE.

Sketch showing abolishment of Fitch Avenue.

Plan and Profile of Union Street, from Donnelly Avenue to the Long Island Railroad.

Profiles of Church Street, Audley Street, Lefferts Avenue and Birch Street, from St. Ann's Avenue to Ashland Street.

Map showing the different pavements on Cypress Hills Road.

Study to partly eliminate Cornelia Street, between Fresh Pond Road and Shaler Street.

Study to partly eliminate Brandon Avenue.

Study for a change in the street system for Flushing Meadows.

Sketch showing rearrangement of marginal streets along Flushing River.

Sketch showing the buildings, with their valuation, on Aurelia Place.

Profile of Beddard Street, from Percy Street to Ziegler Avenue.

Study for an extensive change in the street system in the Juniper Swamp Section. Sketch showing the buildings, with their valuation, in Ivanhoe Park.

Map showing location of and grades of *Jamaica Avenue*, from the Brooklyn Borough Line to Cliffside Avenue. Copy sent to Public Service Commission.

Profiles of Liberty Avenue, from the Brooklyn Borough Line to Van Wyck Avenue, and intersecting streets. Sent to the Board of Assessors.

Profile of Liberty Avenue, from Ferry Street to Seattle Street.

Profiles of *Thedford Street*, Hatch Street, Vandeveer Avenue and Ocean Avenue. Sketch showing the buildings, with their valuation, on *Fulton Street*, Jamaica.

Sketch showing the buildings on $Bayreuth\ Street$, from Murray Street to Dutchess Street.

Sketch showing the buildings, with their valuation, on Maure Avenue, from Atlantic Avenue to Jerome Avenue. Sent to the Board of Estimate and Apportionment.

Sketch of Fresh Pond Road, from Myrtle Avenue to the Brooklyn Borough Line. Sent to the Board of Assessors.

Study for the elimination of Ridgewood Avenue.

Sketch showing the buildings, with their valuation, on Metz Avenue, from Fisk Avenue to Hillcrest Avenue.

Sketch showing the buildings, with their valuation, on Ridgewood Avenue and Fulton Street.

A study for altering the street system shown on the Black Stump Tentative Map, in the vicinity of Motor Parkway.

Sketch showing the buildings, with their valuation, on Bramdon Avenue.

Sketch showing the buildings, with their valuation, on Junction Avenue.

Sketch showing Astoria Avenue, as in use.

Sketch showing the buildings on Howell Avenue.

Map showing the buildings, with their valuation, in the territory covered by Final Section 48.

Sketch showing the buildings, with their valuation, on Broadway from Newtown Road to Oueens Boulevard.

MISCELLANEOUS DRAUGHTING-ROOM WORK.

Office Monument Sheets—completed. Nos. 37, 47, 111, 178, 180, 192, 194, 195, 208, 209, 211, 224, 226, 241, 433, 440, 620, 626, 627.

Sewerage District Drainage Plans—checked. Nos. 20-IV., 21, 21g, 22, 23, 24, 24A, 28, 40, 40A, (10), 40B, (8).

24A, 26, 40, 40A, (10), 40B, (6).
Center-line elevations plotted on 80 ft. sheets
Center-line elevations plotted on 200 ft. tracings
Street systems and old roads plotted on 80 ft. sheets
Street systems and old roads plotted on 200 ft. sheets
Street systems and old roads traced on 200 ft. tracings 626.0 acres
Area of 80 ft. sheets prepared
Area of 200 ft. sheets prepared
Area 200 ft. tracings prepared

STREET OPENING DIVISION.

SURVEYING CORPS.

STREET OPENING SURVEYS-COMPLETED.

*Ziegler Avenue—Bayreuth Street to Willets Point Road.

Marston Avenue—Murray Street to Dunsing Street.

Dunsing Street—Marston Avenue to Matthew Place.

Matthew Place—Dunsing Street to Hoogland Street.

Ely Avenue—Jackson Avenue to Nott Avenue.

Whitney Street—Academy Street to Crescent.

Van Pelt Street—Borden Avenue to Skillman Avenue.

Sothern Avenue—Queens Boulevard to Lurting Street.

Seneca Avenue—Brooklyn Borough Line to DeKalb Avenue, and Summerfield Street to St. Felix Avenue.

Ulster Avenue—Smith Street to Westchester Avenue.

Westchester Avenue—Simin Street to Westchester Avenue.

117th Avenue—Westchester Avenue to Dearborn Avenue.

Dearborn Avenue—117th Avenue to Oueens-Nassau Line.

STREET OPENING SURVEYS-NOT COMPLETED.

Sutphin Road—Hillside Avenue to Jamaica Avenue, and Long Island Railroad to Rockaway Boulevard.

Campion Street—Jamaica Avenue to Archer Street.

OFFICE CORPS.

RULE MAPS-COMPLETED.

	Feet.
Ditmars Avenue—Old Bowery Bay Road to 43d Street	8,380
Bayreuth Street—Parsons Avenue to Dutchess Street	-,
Amity Street—Wateredge Avenue to Main Street	2,375
Marston Avenue-Murray Street to Dunsing Street	855
Dunsing Street—Marston Avenue to Matthew Place	182
Matthew Place—Dunsing Street to Hoogland Street	1,040
*Twelfth Street—Fillmore Avenue to Bulkhead Line of East River	9.687
*Riker Avenue—Steinway Avenue to Twelfth Street	2,850
Ely Avenue—Jackson Avenue to Nott Avenue	600
Fulton Street—Fisk Avenue to Plover Place	2,400
Ninth Street—Broadway to Jackson Avenue	1,300
Tenth Street—Broadway to Jackson Avenue	1,520
Peel Street—Broadway to Hayes Avenue	1,050
St. Felix Avenue—Alden Avenue to Old Bergen Avenue	1,055
Proctor Street—Metropolitan Avenue to Myrtle Avenue	3.835
McComb Place—Myrtle Avenue to Edsall Avenue	1,550
Kew Gardens Road—Union Turnpike to Iris Place	2.500
Gleane Street—Baxter Avenue to Kingsland Avenue	2,850
Hampton Street—Baxter Avenue to Kingsland Avenue	2,640
*Liberty Avenue—Brooklyn Borough Line to Van Wyck Avenue	15,540
*St. James Street—Maurice Avenue to Broadway	960
*Corona Avenue—Maurice Avenue to Broadway	630
ovvoid 1100 mt 1110 110 110 Bloadway	330

^{*} Amended Map.

^{*} Started last year.

*Queens Boulevard—Van Dam Street to Hillside Avenue Sutphin Road—Long Island Railroad to Rockaway Boulevard (with Public Place at intersection with Rockaway Boulevard). Campion Street—Jamaica Avenue to Archer Street. Burrough Avenue—Borden Avenue to Woodside Avenue. Mazeau Street—Falkner Street to Metropolitan Avenue. Whitney Street—Crescent to Academy Street. *Corona Avenue—Hampton Street to Rodman Street. †Milton Street—Flushing Avenue to Grand Street Caldwell Avenue—Harriet Avenue to Queens Boulevard. Schroeder Place—Queens Boulevard to Woodside Avenue Ziegler Avenue—Bayreuth Street to Willets Point Road.	35,000 12,925 1,200 5,730 6,850 7,112 9,000 1,050 7,240 1,112 6,470
Seventeenth Avenue—Winthrop Avenue to Berrian Avenue	1,855 1,440 3,725
Columbia Avenue—Laurel Hill Boulevard to Queens Boulevard	170 1,679 1,645
Total length of Rule Maps completed	164,532
Rule Maps—Not Completed.	
	Feet.
†Rockaway Boulevard—Elderts Lane to Ocean Avenue	7,670
Radcliffe Street—Waldron Street to Hewitt Avenue	5,645
Strong Street—Waldron Street to Hewitt Avenue	5,780
Total length of Rule Maps not completed	19,095
DRAFT DAMAGE MAPSCOMPLETED.	
	Feet.
Riker Avenue—Steinway Avenue to 12th Street	2,850
Marston Avenue—Murray Street to Dunsing Street	855
Dunsing Street—Marston Avenue to Matthew Place	182
Bayreuth Street—Parsons Avenue to Dutchess Street	2,530
†Amity Street—Wateredge Avenue to Main Street	2,375
*Twelfth Street—Fillmore Avenue to Bulkhead Line of East River	9,687
†Ditmars Avenue—Old Bowery Bay Road to 43rd Street	8,380
Fulton Street—Fisk Avenue to Plover Place	2,400
Ninth Street—Broadway to Jackson Avenue	1,300
Tenth Street-Broadway to Jackson Avenue	1,520
Peel Street—Broadway to Hayes Avenue	1,050
Gleane Street-Baxter Avenue to Kingsland Avenue	2,850
Hampton Street-Baxter Avenue to Kingsland Avenue	2,640
Ely Avenue—Jackson Avenue to Nott Avenue	600
St. Felix Avenue—Alden Avenue to Old Bergen Avenue	1,055
†Liberty Avenue-Brooklyn Borough Line to Van Wyck Avenue	15,540
Proctor Street—Metropolitan Avenue to Myrtle Avenue	3,835
McComb Place—Myrtle Avenue to Edsall Avenue	1.550

[†]Started last year, or earlier. *Amended Maps.

	77 /
	Feet.
Kew Gardens Road—Union Turnpike to Iris Place	2,500
*St. James Street—Maurice Avenue to Broadway	960
*Corona Avenue-Maurice Avenue to Broadway	630
*Queens Boulevard-Van Dam Street to Hillside Avenue	35,000
Burrough Avenue—Borden Avenue to Woodside Avenue	5,730
Mazeau Street-Falkner Street to Metropolitan Avenue	6,850
Whitney Street—Crescent to Academy Street	1,112
*Corona Avenue-Hampton Street to Rodman Street	9,000
†Milton Street—Flushing Avenue to Grand Street	1,050
Ziegler Avenue—Bayreuth Street to Willets Point Road	6,470
Caldwell Avenue—Harriet Avenue to Queens Boulevard	7,240
Schroeder Place—Queens Boulevard to Woodside Avenue	1,112
Seventeenth Avenue—Winthrop Avenue to Berrian Avenue	1,855
Seneca Avenue-Brooklyn Borough Line to DeKalb Avenue, and Summer-	
field Street to St. Felix Avenue	1,440
Van Pelt Street-Borden Avenue to Skillman Avenue	3,725
Columbia Avenue-Laurel Hill Boulevard to Queens Boulevard	170
*Opdyke Street-Alburtis Avenue to Tiemann Avenue	1,679
*Richard Avenue-Myrtle Avenue to Otto Street	1,645
	-,
Total length of Draft Damage Maps completed	150,407
tom rength of Draft Damage Maps completed.	200,107
Draft Damage Maps—Not Completed.	77
	Feet.
†Rockaway Boulevard—Elderts Lane to Ocean Avenue	7,670
†Forest Avenue-Metropolitan Avenue to Catalpa Avenue; Halleck Avenuc	
to Myrtle Avenue, and Summerfield Street to Long Island Railroad	4,600
†Alden Avenue-Long Island Railroad to Pansy Street	2,500
†Fresh Pond Road-Myrtle Avenue to 200 ft. south of Anna Place	2,680
†Firth Avenue—Grand Street to Metropolitan Avenue	5,900
Radcliffe Street—Waldron Street to Hewitt Avenue	5,645
Strong Street—Waldron Street to Hewitt Avenue	5,780
Sutphin Road—Hillside Avenue to Jamaica Avenue, and Long Island Rail-	3,760
	12.025
road to Rockaway Boulevard	12,925
Campion Street—Jamaica Avenue to Archer Street	1,200
Ulster Avenue—Smith Street to Westchester Avenue	
Westchester Avenue—Ulster Avenue to 117th Avenue	
117th Avenue—Westchester Avenue to Dearborn Avenue	
Lowell Avenue—Metropolitan Avenue to Woodhaven Avenue	6,270
Total length of Draft Damage Maps not completed	72,170
Profile Maps—Completed.	
	Feet.
Riker Avenue—Steinway Avenue to Twelfth Street	2,850
Marston Avenue-Murray Street to Dunsing Street	855
Dunsing Street—Marston Avenue to Matthew Place	182
Matthew Place—Dunsing Street to Hoogland Street	1,040
Bayreuth Street—Parsons Avenue to Dutchess Street	2,530
Amity Street—Wateredge Avenue to Main Street.	2,375
Twelfth Street—Fillmore Avenue to Bulkhead Line of East River	9,687
Twenty of the Timbole Avenue to Dulkhead Line of East River	9,067
† Started last year or earlier	

[†] Started last year, or earlier. * Amended Map.

	reet.
Ely Avenue-Jackson Avenue to Nott Avenue	600
St. Felix Avenue—Alden Avenue to Old Bergen Avenue	1,055
Fulton Street—Fisk Avenue to Plover Place	2,400
Ninth Street—Broadway to Jackson Avenue	1,300
Tenth Street—Broadway to Jackson Avenue	1,520
Peel Street—Broadway to Hayes Avenue	1,050
Proctor Street—Metropolitan Avenue to Myrtle Avenue	3,835
McComb Place—Myrtle Avenue to Edsall Avenue	1,550
Kew Gardens Road-Union Turnpike to Iris Place	2,500
Gleane Street—Baxter Avenue to Kingsland Avenue	2,850
Hampton Street—Baxter Avenue to Kingsland Avenue	2,640
Liberty Avenue—Brooklyn Borough Line to Van Wyck Avenue	15,540
*St. James Street-Maurice Avenue to Broadway	960
*Corona Avenue-Maurice Avenue to Broadway	630
*Cox Place—Flushing Avenue to Broad Street	840
*Marabel Avenue—Maurice Avenue to Maspeth Avenue	1,850
*Clermont Avenue—Maurice Avenue to Fresh Pond Road	
	4,300
Burrough Avenue—Borden Avenue to Woodside Avenue	5,730
Maseau Street—Falkner Street to Metropolitan Avenue	6,850
Whitney Street—Crescent to Academy Street	1,112
Schroeder Place—Queens Boulevard to Woodside Avenue	1,112
Seventeenth Avenue—Winthrop Avenue to Berrian Avenue	1,855
Milton Street—Flushing Avenue to Grand Street	1,050
Seneca Avenue-Brooklyn Borough Line to De Kalb Avenue, and Summer-	
field Street to St. Felix Avenue	1,440
Van Pelt Street-Borden Avenue to Skillman Avenue	3,725
Ziegler Avenue—Bayreuth Street to Willets Point Road	6,470
Caldwell Avenue—Harriet Avenue to Queens Boulevard	7,240
*Opdyke Street—Alburtis Avenue to Tiemann Avenue	1,679
	10000
Total length of Profile Maps completed	103,202
The December of the Comment	
FINAL DAMAGE MAPS—COMPLETED.	Б.
	Feet.
Clark Avenue-Perry Avenue to Rust Street	2,300
Perry Avenue—Clark Avenue to Rust Street	39
Rust Street—Clinton Street to Flushing Avenue	3,520
Seattle Street—Chichester Avenue to Liberty Avenue	2,728
†Onderdonk Avenue-Metropolitan Avenue to Catalpa Avenue	7,350
†Ashland Street-Cypress Hills Cemetery to Myrtle Avenue; Birch Street to	
Spruce Street, and North Curtis Avenue to Metropolitan Avenue	8,930
†Grove Street-Woodward Avenue to Traffic Street	3,405
†Ralph Street—Grandview Avenue to Traffic Street	2,340
†Vincent Street—Ralph Street to Metropolitan Avenue	680
†School Street—Thomson Avenue to 100 ft. north of Nott Avenue	500
†Hill Street-Gale Street to Skillman Avenue	
†Rawson Street—Hunterspoint Avenue to Skillman Avenue	2,852
†Moore Street—Hunterspoint Avenue to Skillman Avenue	2,802
	2,802 3,022
†Honeywell Street-Hunterspoint Avenue to Queens Boulevard	2,802
†Honeywell Street—Hunterspoint Avenue to Queens Boulevard †Buckley Street—Hunterspoint Avenue to Skillman Avenue	2,802 3,022
	2,802 3,022 2,220
†Buckley Street-Hunterspoint Avenue to Skillman Avenue	2,802 3,022 2,220 3,463

[†]Started last year, or earlier. *Amended Maps.

	Feet.
†Fiftieth Street-Astoria Avenue to Polk Avenue	2,500
†Fifty-first Street-Flushing Bay to 100 ft. south of Polk Avenue; Corona	
Avenue to Oueens Boulevard	12,500
†Lake Street—Junction Avenue to Alburtis Avenue	2,060
†Banta Street—Van Dam Street to Junction Avenue	930
†Fourth Street—Queens Boulevard to Jackson Avenue	4,500
†Fifth Street—Queens Boulevard to Woodside Avenue	1,400
†Sixth Street—Stryker Avenue to Seventh Street	2,050
†Seventh Street—Jackson Avenue to 150 ft. south of Stryker Avenue	2,800
	,
†Eighth Street—Jackson Avenue to Woodside Avenue	3,350
Towns Place—Packard Street to Laurel Hill Avenue	460
Remington Street—Beaufort Avenue to Chichester Avenue	400
†Skillman Avenue—Woodside Avenue to angle between Van Pelt and Hulst	
Streets	5,230
*Decatur Street-Brooklyn Borough Line to Myrtle Avenue	4,000
*Covert Avenue—Brooklyn Borough Line to Wyckoff Avenue	840
*Schaeffer Street—Brooklyn Borough Line to Wyckoff Avenue	940
*Cooper Street—Brooklyn Borough Line to St. Felix Avenue	1,210
*Cooper Place—Wyckoff Avenue to Cypress Avenue	825
*Irving Avenue-Brooklyn Borough Line to Moffat Street	1,450
†Yellowstone Avenue Queens Boulevard to Woodhaven Avenue	5,310
East River Park—Bounded by Ditmars Avenue, Barclay Street, Hoyt Avenue	.,.
and East River	9,296
South Villa Street—Liberty Avenue to Jerome Avenue	1,171
Elv Avenue—Jackson Avenue to Nott Avenue	600
Whitney Street—Academy Street to Crescent	1,112
Gerry Avenue—Pike Street to Marlowe Avenue	4,180
Pike Street—Corona Avenue to Maurice Avenue	395
Packard Street—Myrtle Avenue to Otto Street	1.645
*Broad Street—Maspeth Avenue to Borden Avenue.	4,780
Brout Street—Maspeth Avenue to Borden Avenue	4,700
Total length of Final Damage Maps completed	125,293
Total length of Timal Damage Maps completed	140,470
Final Damage Maps—Not Completed.	
FINAL DAMAGE MAPS—NOT COMPLETED.	T74
†Calamus Avenue-Maurice Avenue to Woodhaven Avenue	Feet. 7,435
†Opdyke Street—Corona Avenue to Tiemann Avenue	2,030
†Eliot Avenue—Metropolitan Avenue to Mt. Olivet Avenue, and Edith Place	2,000
to Queens Boulevard	10,160
†Whitlock Avenue—Brown Place to Calamus Avenue.	5,250
†Corona Avenue—Hampton Street to Rodman Street.	
	9,000
Atlantic Avenue—Brooklyn Borough Line to Van Wyck Avenue	15,255
	10.000
(near Baker Street)	12,250
Total Length of Final Damage Maps not completed	(1 200
Total Length of Final Damage Maps not conspeted	61,380
BENEFIT MAPS—COMPLETED.	
THE CONTIDUE.	Acres.
Grove Street-Woodward Avenue to Traffic Street	
Ralph Street—Grandview Avenue to Traffic Street	45.5
Vincent Street—Ralph Street to Metropolitan Avenue.	10.0

[†]Started last year, or earlier. *Amended Maps.

	Acres
Clark Avenue—Perry Avenue to Rust Street	
Perry Avenue—Clark Avenue to Rust Street	31.4
Rust Street—Clinton Avenue to Flushing Avenue	
Seattle Street—Chichester Avenue to Liberty Avenue	32.7
†School Street—Thomson Avenue to 100 ft. north of Nott Avenue	
†Hill Street—Gale Street to Skillman Avenue	
†Rawson Street—Hunterspoint Avenue to Skillman Avenue	80.5
†Moore Street-Hunterspoint Avenue to Skillman Avenue	
†Honeywell Street-Hunterspoint Avenue to Queens Boulevard	
†Buckley Street—Hunterspoint Avenue to Skillman Avenue	
†Ashland Street-Cypress Hills Cemetery to Myrtle Avenue, Birch Street to	
Spruce Street, and North Curtis Avenue to Metropolitan Avenue	185.5
†Onderdonk Avenue—Metropolitan Avenue to Catalpa Avenue	92.0
†Weil Place—Flushing Avenue to Washington Place	4.5
†Cassel Avenue—Washington Avenue to Jay Street	72.0
Fiftieth Street—Astoria Avenue to Polk Avenue	, = . 0
Fifty-first Street—Flushing Bay to 100 ft. south of Polk Avenue; Corona	
Avenue to Queens Boulevard	757.0
†Lake Street—Junction Avenue to Alburtis Avenue)	737.0
†Banta Street—Van Dam Street to Junction Avenue	31.8
	21.0
†Fourth Street—Queens Boulevard to Jackson Avenue	47 0
†Fifth Street—Queens Boulevard to Woodside Avenue	47.0
†Sixth Street—Stryker Avenue to Seventh Street	F 7 0
†Seventh Street—Jackson Avenue to 150 ft. south of Stryker Avenue	75.3
†Eighth Street—Woodside Avenue to Jackson Avenue	
Towns Place-Packard Street to Laurel Hill Avenue	4.5
Remington Street—Beaufort Avenue to Chichester Avenue	4.8
†Skillman Avenue-Woodside Avenue to angle between Van Pelt and Hulst	
Streets	109.0
*Central Avenue—Myrtle to Edsall Avenues	207.0
*Decatur Street—Brooklyn Borough Line to Myrtle Avenue	
*Covert Street—Brooklyn Borough Line to Wyckoff Avenue	
*Schaeffer Street—Brooklyn Borough Line to Wyckoff Avenue	
*Cooper Street-Brooklyn Borough Line to St. Felix Avenue	56.0
*Cooper Place—Wyckoff Avenue to Cypress Avenue	
*Irving Avenue—Brooklyn Borough Line to Moffat Street	
Whitney Street—Academy Street to Crescent	7.1
Yellowstone Avenue—Woodhaven Avenue to Queens Boulevard	254.6
Ely Avenue—Jackson Avenue to Nott Avenue	23.2
East River Park-Bounded by Ditmars Avenue, Barclay Street, Hoyt Avenue	
	1.380.0
Gerry Avenue—Pike Street to Marlowe Avenue	
Pike Street—Corona Avenue to Maurice Avenue	37.5
South Villa Street—Liberty Avenue to Jerome Avenue	9.1
*Richard Avenue—Myrtle Avenue to Otto Street	11.3
Eliot Avenue—Metropolitan Avenue to Mount Olivet Avenue, and Edith	
Place to Queens Boulevard	224.0
Broad Street—Maspeth Avenue to Borden Avenue	26.9
	20.9
Total area of Benefit Maps completed	3.809.8

[†]Started last year, or earlier. *Amended Maps.

BENEFIT MAPS-NOT COMPLETED.

/	Acres
Queens Boulevard-Van Dam Street to Hillside Avenue	1,590.0
Atlantic Avenue—Brooklyn Borough Line to Van Wyck Avenue	212.0
Corona Avenue—Hampton Street to Rodman Street	240.4
Kimball Avenue-Liberty Avenue (near Digby Street) to Liberty Avenue	
(near Baker Street)	197.0
Rockaway Road—Conduit to Hook Creek	799.0
Calamus Avenue—Maurice Avenue to Woodhaven Avenue	52.0
Total area of Benefit Maps not completed	3,090.4
PROFILE MAPS—FOR WHICH DETAIL GRADES WERE COMPUTED.	
	Feet
Bayreuth Street—Parsons Avenue to Dutchess Street	2,530
Riker Avenue-Steinway Avenue to Twelfth Street	2,850
Amity Street—Wateredge Avenue to Main Street	2,375
Marston Avenue-Murray Street to Dunsing Street	855
Dunsing Street—Marston Avenue to Matthew Place	182
Matthew Place—Dunsing Street to Hoogland Street	1,040
St. Felix Avenue—Alden Avenue to Old Bergen Avenue	1,055
Twelfth Street—Fillmore Avenue to Bulkhead Line of East River	9,687
Liberty Avenue—Brooklyn Borough Line to Van Wyck Avenue	15,540
Proctor Street—Metropolitan Avenue to Myrtle Avenue	3,835
McComb Place—Edsall Avenue to Myrtle Avenue	1,550
Kew Gardens Road—Union Turnpike to Iris Place	2,500
Ninth Street—Jackson Avenue to Broadway	1,300
Tenth Street—Jackson Avenue to Broadway	1,520
Peel Street—Hayes Avenue to Broadway	1,050
Gleane Street—Baxter Avenue to Kingsland Avenue	2,850
Hampton Street—Baxter Avenue to Kingsland Avenue	2,640
Fulton Street—Fisk Avenue to Plover Place	2,400
Ziegler Avenue—Bayreuth Street to Willets Point Road	6,470
Liberty Avenue—South Villa Street to Van Wyck Avenue	2,500
Maseau Street—Falkner Street to Metropolitan Avenue	6,850
Radcliff Street—Waldron Street to Hewitt Avenue	5,645
Strong Street—Waldron Street to Hewitt Avenue	5,780
Burrough Avenue—Borden Avenue to Woodside Avenue	5,730
Schroeder Fuce—Queens Boulevard to Woodside Avenue	1,112
Total	89,846
LEGAL STATUS CORPS.	
Reports Made.	
Legal Opening	86
Legal Status, for Local Boards	683
Legal Status, for Corporation Counsel	165
· Miscellaneous	310
Total	1,244
Physical Street Inspections.	337
Several special maps were made.	
beveras special maps were made,	4 .

Data relative to the legal status of streets, for use in reports, are constantly being collected and indexed. The old records of the Village of College Point and the City of Long Island City are being copied and indexed.

STREETS DEDICATED, ACCORDING TO OPINIONS RENDERED BY THE CORPORATION COUNSEL.

	Feet
Alburtis Avenue—Polk Avenue to Fillmore Avenue	490
Atlantic Street—Collins Avenue easterly 500 feet	500
Beaufort Avenue—Freedom Avenue to Seattle Street	750
Bleeker Street-Forest Avenue to Fresh Pond Road	1,350
Bowne Avenue-Jackson Avenue to Franklin Place	2,680
Chaffee Street—Catalpa Avenue to Cornelia Street	700
Chestnut Street—Jamaica Avenue to Atlantic Avenue	1,870
Church Street—Catherine Street to South Street	650
Clark Street—Van Alst Avenue to Main Street	530
Clermont Avenue—Grand Street to Maspeth Avenue	370
Clifton Avenue—Halle Avenue to Long Island Railroad	400
Congress Avenue-Laurel Hill Boulevard to Clifton Avenue	950
Cooper Avenue—Brooklyn Borough Line to Myrtle Avenue	7,700
Crosby Avenue—Vermont Avenue to about 100 feet south of Bulmer Place	700
Culver Place—Hunt Place to Lake Street	.340
Debevoise Avenue—Borden Avenue to Halle Avenue	1,560
Dennison Street—Atwater Street to Ziegler Avenue	1,000
Depot Lane—22nd Street to 26th Street.	950
•	
Dill Place—Myrtle Avenue to Cooper Avenue	1,450
Downing Street—Yarmouth Street westerly 200 feet	200
Eagles Street—Matthew Place to Jackson Avenue	440
Eagles Street—Fourteenth Street to Cryder's Lane	200
Emerson Street—Freedom Avenue to Bedford Avenue	1,970
Ericson Street—Grand Avenue to Schurz Avenue	470
Falkner Street—Fisk Avenue to Columbia Avenue	500
Ferry Street—Jamaica Avenue to Ashland Street	1,430
Folsom Avenue—Central Avenue to Myrtle Avenue	720
Forest Parkway—Jamaica Avenue to Ashland Street	1,350
Franconia Avenue—Jamaica Avenue to Parsons Avenue	1,770
Franklin Avenue—Hollis Avenue to Whittier Street	2,000
Franklin Avenue—Parsons Avenue to Saull Street	3,250
Fulton Place—North Villa Street to Long Island Railroad.	1,400
<u> </u>	,
Fulton Street—Napier Avenue to about 200 feet west of Herald Avenue	200
Gamma Place—Myrtle Avenue to Suburban Street	520
Greenwood Avenue—Jamaica Avenue to Kimball Avenue	4,780
Grennell Street—Matthew Place to Mitchell Avenue	2,150
Grout Avenue—Betts Avenue to Schroeder Place	750
Hatch Avenue—Atlantic Avenue to Ridgewood Avenue	1,100
Haydock Street—California Avenue to Lucerne Place	920
Herald Avenue-Jamaica Avenue to Atlantic Avenue	1,550
Hobson Avenue-Laurel Hill Boulevard to Long Island Railroad	2,500
Hollis Avenue—Farmers Avenue to Springfield Road	9,600
Hull Avenue—Old Brooks School Road to Willow Avenue	1,800
Hunt Place—Culver Place to Alburtis Avenue	400
	1.530
Inkerman Street—Mitchell Avenue to 630 feet south of State Street	2,400
Ithaca Street—Baxter Avenue to Kingsland Avenue	,
James Street—Broad Street to Flushing Avenue	200
John Street-Metropolitan Avenue to Bleeker Street	620
Jonathan Street—Fifth Avenue to Fourteenth Avenue	3,600
Jones Avenue-Laurel Hill Boulevard to about 225 feet east of Clifton	
Avenue	1,420
Judge Street-Elmhurst Avenue to Britton Avenue	570

	reet.
Junction Avenue—Jackson Avenue to Hunt Street; Altsyne Avenue to Corona	
Avenue, and Maurice Avenue to Justice Street	5,800
Justice Street—Broadway to Junction Avenue	3,300
Kendall Street—Crocheron Avenue to about 730 feet north of State Street	1,730
Laurel Hill Avenue—Borden Avenue to Old Celtic Avenue	650
Laurel Hill Boulevard—Newtown Creek to Fifth Street	7,350
Little Bayside Road—Whitestone Road to Bell Avenue	5,700
Lott Avenue—Jamaica Avenue to Rockaway Boulevard	2,100
McPherson Street—Catalpa Avenue to Cornelia Street	700
Manor Avenue—Jamaica Avenue to Ridgewood Avenue	890
Maple Street—Herald Avenue to Freedom Avenue	1,200
Maure Avenue—Wisner Place to Metropolitan Avenue	2,100
Millard Street—Jackson Avenue to Station Road; Depot Lane to State Street	2 200
northerly about 680 feet	2,380
Mitchell Avenue—Dunsing Street to Joslin Street	1,470
Montford Street—Richford Street to Benson Place	2,800
North Cochrane Street—Jamaica Avenue to Ridgewood Avenue	2,000 760
North Curtis Avenue—Jamaica Avenue to Ridgewood Avenue	780
North Henry Street—Flushing Avenue to Newtown Avenue	600
North Villa Street—Metropolitan Avenue to Ridgewood Avenue	1,850
Norwood Place—Jackson Avenue to Station Road, and Depot Lane to State	1,030
Street	1,800
Nott Avenue—Vernon Avenue to Jackson Avenue	2,600
Ormond Street—Queens Avenue to Station Road, and Crocheron Avenue to	2,000
State Street	3,450
Palatina Avenue—Hillside Avenue to Palo Alto Avenue	400
Pinford Place—Station Road to Queens Avenue	2,700
Quaker Place—Station Road to Queens Avenue	2,600
Queens Road—Cemetery Lane to Rocky Hill Road	1,800
Rector Street—Jamaica Avenue to Rockaway Plank Road	2,200
Ridgewood Avenue-Maure Avenue to North Curtis Avenue	1,200
Rockaway Road—Locust Avenue to Farmers Avenue	5,700
Rowan Avenue-Laurel Hill Avenue to about 130 feet north of Maurice Ave-	
nue	1,600
St. Felix Avenue-Walter Street to about 220 feet south of Seneca Avenue	550
Scott Street—Chestnut Street to Stoothoff Avenue	450
Sedgwick Street—Catalpa Avenue to Cornelia Street	700
Silkworth Avenue-Jamaica Avenue to about 450 feet south of Ridgewood	
Avenue	1,150
Skillman Avenue—Harold Avenue to about 75 feet west of Van Pelt Street	320
Stanhope Street—Woodward Avenue to Fairview Avenue	440
Sycamore Place—Maure Avenue to L. I. R. R	340
Tower Place—Freedom Avenue easterly about 460 feet	460
Townsend Avenue-Laurel Hill Boulevard to about 330 feet east of Clifton	
Avenue	1,370
Union Street—Jackson Avenue to Franklin Place	3,020
Vanderveer Avenue—Jamaica Avenue to Fulton Street	1,450
Walker Avenue—Jamaica Avenue to Ridgewood Avenue	890
Waverly Place—Jamaica Avenue to Metropolitan Avenue	1,280
Wertland Avenue-Hempstead and Jamaica Plank Road to Whittier Street	850
Whitestone Avenue—Jackson Avenue to Gower Avenue	8,500
Wisner Place—North Wickes Street to Atfield Place	900

	reet.
	7,050
Woodward Avenue-Flushing Avenue to Lutheran Cemetery Branch, Brook-	
lyn Rapid Transit	5,000
Yaphank Street—Yarmouth Street westerly about 215 feet	210
Eighth Avenue—18th Street to 26th Street	2,800
Second Street-Jackson Avenue to Burnside Avenue	690
Fourth Street-Lawrence Boulevard to L. I. R. R	500
36th Street—11th Avenue to 26th Street	1,200
40th Street—Burns Avenue to Hayes Avenue, and Fillmore Avenue to Forest	
	3,200
	1,950
· ·	2,550
	2,330
	1,300
Beach 63rd Street—Larkin Street to the Atlantic Ocean	900
Beach 64th Street—Larking Street to the Atlantic Ocean	900
Beach 65th Street-Long Island Railroad to Atlantic Ocean	1,350
· · · · · · · · · · · · · · · · · · ·	1,350
	2,160
Beach 75th Street-Far Rockaway Boulevard to Atlantic Ocean	1,600
Beach 79th Street—Rockaway Beach Boulevard to Atlantic Ocean	900
Beach 80th Street—Rockaway Beach Boulevard to Atlantic Ocean	900
Beach 81st Street-Finnard Street to Atlantic Ocean	1,900
Beach 82nd Street-Long Island Railroad to Atlantic Ocean	2,050
Beach 84th Street—Long Island Railroad to Atlantic Ocean	1,900
Beach 85th Street—Beach Channel Drive to Atlantic Ocean	2,450
Beach 86th Street-Jamaica Bay to Atlantic Ocean	2,450
.Ivenue "D"—College Avenue to 13th Street	300
Total linear feet of street dedications	21,140
MISCELLANEOUS.	
Maps Filed With This Bureau.	
Final Sections	6
Alterations	57
Draft Damage (original)	37
Draft Damage (tracing)	37
Profile	35
Guarantee	547
Sales	31
Sewer District	7
Tax	160
Railroad	1
Miscellaneous	12
Mischancous	
Maps Distributed by This Bureau.	
For official use	1.320
Sold to the public.	320
sold to the painter	020
COPIED AT THE COUNTY CLERK'S.	
	notes
Sales Maps	
Sales Maps 1,212 Guaranteed surveys 1,500	

Designed to serve our special needs, thereby saving time and cost of searches, we have started a small title plant of our own at the County Clerk's Office, which now contains about 1,325 names, covering individuals, families, grantors, grantees and wills.

BLUE PRINTS MADE BY THIS BUREAU.

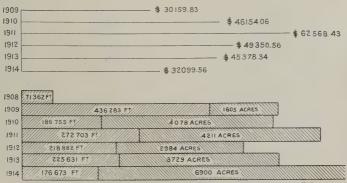
For this bureau and other City departments	2,460
For the Long Island Railroad	49
For the Title Guarantee and Trust Company	130
For the United States Title Guaranty Company	11
For the Lawyers' Title Insurance and Trust Company	91

Note.—This total would be about 3,300, if credit were taken for each unit of sectional maps and plans printed.

PROGRESS CHART



RULE, DRAFT DAMAGE, AND PROFILE MAPS

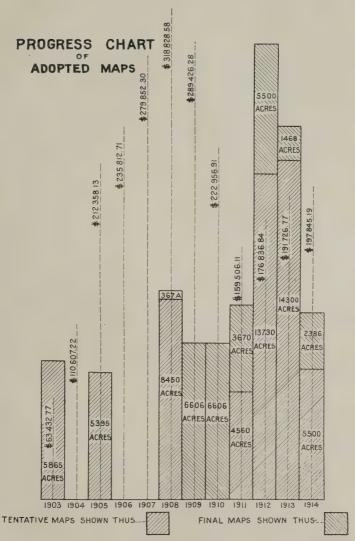


FINAL DAMAGE AND FINAL BENEFIT MAPS



NOTE: Previous to 1303 the cost of Street Opening Maps was paid from Budget Appropriations or from Corporate Stock.

	TENTAT	TENTATIVE MAPS		FINAL SECTIONS	n)		0)	STREET	OPE	OPENING M	MAPS			
	AD	ADOPTED	AD	ADOPTED		RULE	DRA	DRAFT DAMAGE	PA	PROFILES	FINAL	FINAL DAMAGE		FINAL BENEFIT
YEAR	ž	AREA IN ACRES	S.	AREAIN ACRES	ES Nº	LENGTHINFEET	N.	LENGTHIMFEET	٥. ٥.	LENGTH IN FEET	o. N	LENGTH IN FEET	o. N	AREAMACRES
908	-	8450	-	367	54	167 172	74	203517	99	192083	33	71362	26	
606			81	9099	69	182873	99	241684	49	182 104	27	436283	25	1605
0161			82	9099	9 40	130476	45	158633	36	127 573	52	186755	57	4078
16	-	4560	0	3670	59	215 965	17 6	255405	48	173 455	70	272703	72	4211
1912	4	13730	15	5500	69 0	299 309	9 82	305 359	52	187 197	70	218 882	52	2984
1913	2	14300	4	1468	3 70	241 766	80	290 149	19	171448	7.1	225 631	59	37 29
1914	2	5500	8	2386	6 42	183 627	7 51	222577	35	103 202	5	176 673	52	0069
	ALTERA SPECIA	ALTERATION MAPS SPECIAL MAPS	Monu	MONUMENTS		FIELD	WORK		LEGAL	- u	EXF	EXPENDITURES	URES	10
YEAR	TRANSMITT FOR ADOP	RANSMITTED TRANSMITTED FOR ADOPT. FOR FILING	SET	RE-SET	BUILDINGS	FEET OF MEASUREMENTS	ANGLES TURNED	MILDINGS FEET OF ANGLES FEET OF LOCATED MEASUREMENTS TURNED STREET LEVELS	REPORTS		BUDGET AND	· ·	TREET AND PARY	STREET AND PARK OPENING FUND
908	17	0	1123	334	7048	8646595	12714	277949		6	318828.58	8.58		
909	25	17	832	466	1919	8070960	9719	852187	961	2	89426.28	6. 28	30	30159.83
910	25	8	570	634	3215	7722 357	9965	9962 1753372	312	2	222956.	16.91	4	46154.06
116	17	30	354	253	3114	6150 387	10121	275734	960		159506.11	11.90	9	62 568.43
1912	89	14	586	131	4399	7113 234	14736	985004	1037		176836.	36.84	4	49350.56
1913	90	72	604	- 185	3326	6085 248 11 554	11554	158531	1224		191726.	26.77	4	45 378.34
1914	75.	25	783	139	1446	6762 076 12404	12404	446040	1244		197 845.19	15.19	3	32 099, 56



NOTE: Broken lines includes cost of Street Opening Maps, which previous to 1909, was paid from Budget-Appropriations or from Corporate Stock

REPORT OF THE BUREAU OF SUBSTRUCTURES AND FRANCHISES.

DUTIES OF THE BUREAU.

Accumulating all available data by surveys and by locations taken when openings are made in the streets for new installations or repairs to existing substructures.

Assigning locations for the installation of new substructures with the object of conserving subsurface space for future utilization, thereby reducing pavement mutilation to a minimum.

Furnishing to applicants for subsurface space for tunnels, pipe lines, conduits, etc. (where the Bureau has obtained sufficient data), information as to location and size of existing substructures. This information is required by the Board of Estimate and Apportionment when applications are filed for franchises.

Furnishing other City Departments with information for use in construction of new installations.

Compiling Boring Data throughout the Borough.

Compiling Franchise Data.

VALUE OF WORK,

The value of the work of this Bureau may be outlined as follows:

The ultimate object of this Bureau is not only locating and mapping substructures but the utilization of these records for economical assigning of locations for new installations, thereby conserving for future disposition valuable subsurface space, which will prove one of the City's most valuable assets.

The assignment of this space to applicants giving a comparatively unobstructed route is of great value, and this Bureau in time proposes to exact a moderate fee for such information, as is done in other cities.

When sufficient data has been obtained it will be of great value preliminary to the construction of public works, and could be made a part of the contract drawings. This would give the contractor much valuable information of the character of the substructures to be cared for during construction. This will unquestionably result in a material saving in the price of the work.

The systematic method now in use for permanently recording boring data throughout the borough will, in a short time, mean the saving of thousands of dollars for borings, which would be necessary without this data now being compiled.

METHOD OF PROCEDURE.

To facilitate the execution of the work in this large Borough and avoid possible repetitions, it was necessary to subdivide the Borough into sections, and each section has been subdivided into divisions, the exact size of the record maps. Long Island City is the territory in which our surveys and maps have been made. This area has been laid out in two sections called Sections Nos. 1 and 2, based on the system of co-ordinates used by the Topographical Bureau. The sheets or record maps in Sections Nos. 1 and 2 cover an area of 600 ft. by 800 ft., and are plotted to a scale of 20 ft. to the inch. There are 225 Record Maps in Section No. 1, and 205 in Section No. 2, each Record Map being numbered in its respective section.

The remainder of the Borough is laid out in sections to correspond with the final section maps of the Topographical Bureau. To do this the size of area covered by each Record Map will be changed to 500 ft. by 800 ft. making 40 Record Maps to each final section, numbered from 1 to 40.

Owing to the changes and additional installations that are continually being made from time to time, the Record Maps are never completed, but must be kept up to date. Data has been obtained from the various Public Service Corporations and City Departments; in fact every available source of information is being investigated. In many instances this data is incomplete and not accurate, but it is all plotted as temporary record until it can be replaced by actual surveys in the field, when the streets are opened during construction of new installations. The progress of accurate mapping of this data depends on the number of openings made in the streets for subsurface construction.

Notice of every permit granted for subsurface work in the Borough is sent to this office, which are investigated and the installations located.

Owing to the small force employed in this Bureau, it has been found impossible to cover all of the Borough, and the First Ward is the only section in which this has been completely carried out, but the location of many extensive installations throughout the Borough have been made.

The work of obtaining and classifying the Franchise records of all Public Service Corporations pertaining to this Borough is well under way. A large graphical index map has been prepared showing by colors the nature and extent of each Franchise grant. Considerable difficulty has been encountered in obtaining copies of the franchises of several Corporations, but I hope that this delay will be of short duration.

Through the co-operation of the Building Department, we are receiving records of all plans filed for the construction of new buildings that show subsurface encroachments. These records are properly indexed and filed.

Preliminary to preparing the record maps, a detailed topographical survey is made over the area covered. This survey includes the location of building lines, car tracks, all poles, hydrants, elevated columns, manhole covers, gas drips, and in fact any object on the surface of the streets that will serve as a guide for determining the location of substructures.

Upon the completion of the detailed Topographical Survey, the subsurface location survey, or detail box measurement work is taken up. Each manhole, conduit box, water gate box, etc., is opened and measured in detail as to the location of the pipe or duct line passing through it.

Surveys covering 20 record maps in Section No. 1, Long Island City, have been completed in the field. Twelve of these are plotted.

Corrections and additions have been located and shown on the Record Maps.

All available Boring Data has been graphically indexed and filed.

All subsurface data located from street openings in Long Island City has been plotted on the color index map.

A special map and statistics were prepared for exhibition at the Panama-Pacific Exposition.

When the record maps are plotted in detail, colors are used to distinguish the various features that have been accurately located, and the portions that have been plotted from other than field locations are shown in pencil until a field location is obtained, at which time they are colored.

All Sewer Department data over area surveyed was copied and properly incorporated in our records.

All available City Department data and Company information was obtained and utilized in the area surveyed.

Templets of each Record Map surveyed were made to a scale of 80 feet to the inch, and sent to the Public Service Corporations for use in submitting data.

SUMMARY OF WORK DONE BY FIELD FORCE FOR THE YEAR ENDING DECEMBER 31, 1914.

No. of Angles Turned	39
No. of Features Located	2,089
No. of Feet of Traverse	56,100
No. of Feet of Curbs Located	68,230
No. of Feet of Trolley Tracks Located	24,140
No. of Feet of Taping	165.760

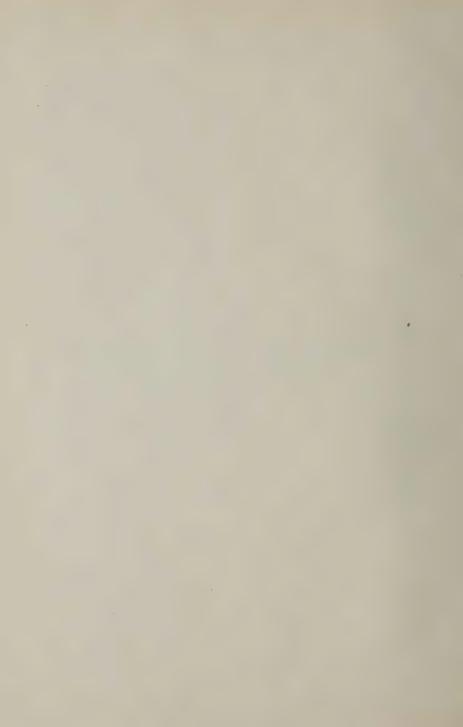
No. of Feet of Building Line Located	70,020
No. of Sewer Manholes Located	334
No. of Sewer Catch Basins Located	98
No. of Telephone Co. Boxes Located	34
No. of Gas Boxes Located	442
No. of Water Boxes Located	264
No. of Power Co. Boxes Located	9
No. of Street Railway Boxes Located	29
No. of Miscellaneous Boxes Located	24
No. of Poles, Etc., on Sidewalks Located	816
No. of Street Openings Located	1,348
No. of Feet of Subsurface Work Located	174,942
No. of Feet of Gas Mains Located	65,199
No. of Feet of Water Mains Located	72,173
No. of Feet of Sewer Pipe Located	1,023
No. of Feet of Power Duct Located	165
No. of Feet of Telephone Located	29,300
No. of Feet of Miscellaneous Pipe Located	10
No. of Boxes, Catch Basins, Etc., Measured in Detail	628
No. of Openings, Located by Levels	28
No. of Feet of Levels Located	3,800
No. of Feet of Tunnels Located	1,100

The area surveyed covers 8.8 miles of streets.

Owing to the extensive sewer construction in the Second, Third, and Fourth Wards, as well as other subsurface installations, which are constantly being made throughout the entire Borough, and as the only opportunity of obtaining accurate location is when the work is being done, I would strongly recommend that the force of the Bureau be increased in order to meet the requirements of this work.

To permit this vast amount of installations to be covered up without being located would mean the loss of accurate information that is invaluable to this Bureau, and which could never be fully replaced after its installation. It would, therefore, be highly advisable, at the proper time, to endeavor to show the necessity for an additional appropriation and urge the authorities to grant this request, in order that the force of the Bureau may be increased sufficiently to properly carry on this work.

BUREAU OF PUBLIC BUILDINGS AND OFFICES



REPORT OF THE BUREAU OF PUBLIC BUILDINGS AND OFFICES FOR THE YEAR ENDING DECEMBER 31, 1914.

BUILDINGS UNDER THE SUPERVISION OF THE BUREAU AND FORCE EMPLOYED.

Queens County Court House.—Court Square, Long Island City. Occupied by Supreme Courts Parts One and Two, County Courts, Special Term, Court Clerk's Offices, Judges' Chambers, District Attorney's Offices, Sheriff's Office, County Clerk's Branch Office, Grand Jury, Commissioner of Jurors, Deputy City Clerk, Law Library, Grand Army and Janitor's Apartments. Two elevators, seven public toilets, nine private toilets, twenty-six large rooms, forty small rooms and seven hallways.

Force employed, seventeen men, eight women. Floor space, 92,000 sq. ft.

Borough Hall.—Fifth Street, Long Island City. Leased. Occupied by the Borough President's Offices, Commissioner and Assistant Commissioner of Public Works, Secretaries of the Borough and to the President, Consulting Engineer, Appointment Clerk, Purchasing Division, Contract Division, Division of Audit and Accounts, Payroll Division, Bureaus of Highways, Sewers, Street Cleaning and Buildings, Testing Laboratory, License Bureau and Local Board Rooms.

Force employed, eight men, six women. Floor space, 34,110 sq. ft.

St. Mary's Lyceum Building.—Long Island City. Leased. Occupied by the Magistrates' and Municipal Courts,

Force employed, 2 men. Floor space, 6,617 sq. ft.

Interior Bath.—Eighth Street, Long Island City. Owned by City.

Force employed, 5 men, 2 women. Floor space, 4,085 sq. ft.

Town Hall, Newtown.—Owned by City. Occupied by Municipal Court, Clerk's Office, Local offices of the Bureaus of Highways and Street Cleaning and Police Departments.

Force employed, 1 man, 1 woman. Floor space, 11,300 sq. ft.

Town Hall, Flushing.—Owned by City. Occupied by Magistrate's Court, Clerk's Offices, Offices and Store Rooms of the Bureau of Public Buildings and Offices, Local Offices of the Bureau of Highways, Street Cleaning, Water Department, Sewer Department and Park Department, and Janitor's Apartments.

Force employed, 4 men, 1 woman. Floor space, 23,175 feet.

Town Hall, Jamaica.—Owned by City. Occupied by Court of Special Sessions, Magistrate's and Municipal Courts, Coroners' Courts and Offices, Judge's Chamber, Sealer of Weights and Measures, Telegraph Office of the Fire Department, Spanish-American War Veterans and Police Department.

Force employed, 3 men, 1 woman. Floor space, 42,855 sq. ft.

Public Comfort Station.—Adjoining the Town Hall, Jamaica. Owned by City. For use of male and female. Force employed, 1 man and 1 woman.

County Building, Jamaica.—Owned by City. In course of reconstruction. Occupied by Queens County Clerk's Office and Surrogate's Court and Offices. Janitor's house in rear.

Force employed, 4 men, 2 women. Floor space, approximately 40,000 sq. ft.

Magistrate's Court Building, Far Rockaway.—Owned by City. Occupied by Magistrate's Court and Clerk's Offices.

Force employed, 1 man. Floor space, 4,929 sq. ft.

Following is a statement of the principal work performed during the year:

QUEENS COUNTY COURT HOUSE.

Carpentry.—Oak partitions were erected on the first floor front, to form Offices for use of the County Clerk, oak panels were put in several doors to replace glass, which was continually being broken, built shelves for telephones, put on weather strips, removed storm stairs in the spring, repaired and replaced same in the

fall, altered partitions, repaired window frames, repaired and regulated door checks, placed new sash cord in windows, built shelving in vaults for storage of books and papers. Prepared detail plans for new storm sash, repaired locks, furniture and repaired generally throughout building.

Plumbing.—The closets, urinals and basin waste have been cleaned, urinal and basin tanks and faucets repaired, thawed water pipes and put in new valves, repaired valves in engine room, repaired urinal and closet flushometers and kept same in order. Inspected and oiled all flushometers weekly, and made all small repairs when necessary.

Steam Fitting.—Put in new check valve at tank of fire line and made all necessary changes as required by the Fire Department of the City of New York, reseated and put in new discs on main stop valves of boiler and packed stems of same, repaired reducing valve on steam line of heating system, and checks on returns to radiators. Repaired automatic damper regulator and piping to same, replaced radiator valves that had been repaired in shop in place of those that were out of order throughout building. Repaired valves in Paul vacuum system that were not working properly, repaired and ground seat of safety valves on boilers, put new diaphragms in steam reducing valves, repaired boiler feed pumps on water end, put new valves in exhaust of same, laid new boiler blowoff from boiler to sewer, repaired radiators throughout building. Repaired feed water pipe, steam trap, and valves on trap. Repaired leaks in valves and steam lines leading to jail, and made general repairs as required.

Tinsmithing and Sheet Metal Work.—Repaired galvanized iron ornamental work on roof, repaired galvanized iron leaders on roof, made galvanized iron drip pans for elevators, repaired leaks in roof, made copper strainers for urinals, removed old sheet metal from floor of boiler room and replaced same with new metal, repaired gutters and leaders. Made in shop 5 iron tanks, 58 gal., with brass faucets to hold liquid soap disinfectants, etc., large galvanized iron tank and galvanized iron pans for use in the Laboratory at Borough Hall, iron leaders for use on buildings, notched and edged tin for use in buildings, made protectors for electric switches. Repaired ash cans, iron buckets, cuspidor cups, snow shovels, wrought iron handles, letter boxes, etc.

Electrical Work:—Wired and installed four portable fixtures, new receptacle plug and buzzer, in Supreme Court, Part I. Recharged batteries for elevator bells, installed new switch in basement, new porcelain sockets in area fixtures, and new fixtures in area vault, repaired motors, panel-boards, cutouts, controllers and rentilating system, installed new light fixtures, conduits and lights in elevator machine room. Installed new wiring in County Court and Ladies' Rooms, new switch in Engineer's toilet, new insulating plates in public elevator controller. Recharged batteries, repaired bell and all electrical machinery. Installed new light outlets and fixtures in Deputy City Clerk's Office, recharged thirteen cells of batteries, renewed two desk fixtures in County Court Room, repaired electric carpet sweepers, cleaned switchboard generally, cleaning and polishing contacts on elevator controller and made minor repairs.

Painting.—Prepared and varnished floor in City Clerk's Office, filled, varnished and finished new oak panels in sash doors throughout building where glass was removed, painted electric tubing in basement, painted and stippled windows in civil prison. Painted fountain, iron fence and cement work in plaza in front of Court House, filled, stained and varnish finished twenty feet of hard oak partition in the Deputy City Clerk's office, filled, stained and varnish finished panels in Sheriff's Office, scraped and painted three coats all sheet iron work on dome, cornice, gutters, flanges, leaders and skylight, on roof. Cut out cracks in ceilings and side walls plastered, sized and painted four coats, the Grand Jury, Trial Jurors and Court Clerk's rooms, finished seven radiators in above rooms with aluminum, varnish finished one oak panel, desks, chairs, etc., in the District Attorney's Office, lettered

in gold names on glass panels of doors in Deputy City Clerk's and County Clerk's Offices, cleaned and prepared ceilings and side walls in first, second and third floor balls, Administration building, and painted same with three coats of paint, dado and striped on walls of stairway. Scraped and aluminum painted othe wire work around elevator shafts and iron risers on stairways, glazed where necessary and puttied and painted sash, cleaned and varnished safes, cabinets and other furniture.

Premises.—The grounds surrounding the building and the plaza in front of same have been attractively maintained throughout the summer months with flowers, shrubbery and well kept lawns.

BOROUGH HALL.

Carpentry.—Built new, altered and reset oak partitions forming offices for the President of the Borough and Bureaus under his jurisdiction, put down new flooring, repaired doors and windows, placed new sash cord in windows, made general repairs to furniture and throughout the building.

Plumbing.—Cleaned closet, urinal and basin wastes, repaired urinal and closet tanks and faucets. Took out fixtures and plugged openings for same in Laboratory. Put in new waste, basin and water supply lines in Engineer's Department, made general repairs to all plumbing as required.

Steam Fitting.—Repaired radiators that were leaking and out of order, radiator valves, and packed stems of same. Disconnected radiators and plugged risers, replaced same where required, repaired automatic air valves, repaired and cleaned out water column on both boilers, also blow-off valves. Installed two new radiators in local board room, installed new radiator with risers and all connections on second floor, repaired main stop valve on both boilers. Repaired blow-off valves, covered all new piping with asbestos covering. Made all necessary repairs in building.

Tinsmithing and Sheet Metal Work.—Took up sheet metal from floor, cleaned and replaced pipes leading from boilers to chimney, made extra heavy galvanized iron buckets and drip pans, repaired ash cans, cleaned flues, repaired roof and flashing around flag pole, made brass springs for use in the blue print room. Altered copper boiler, soldered utensils, etc.

Electrical Work.—Permanently connected motor and electric ovens in Laboratory, finished tabulating motor equipment in tabulating room, installed new light outlets and equipment in tabulating room and office of Division of Audit and Accounts, installed new electrical equipment in Laboratory, installed temporary lighting fixtures in Post Office Building, removed and re-installed telephone wires in Office of Bureau of Sewers, Bell system installed in office of Purchasing Agent, Appointment Clerk, President's private office and office of Contract Clerk. Installed new conduit, wiring, fixtures and equipment for actinic rays for asphalt testing machine. Rearranged wiring for addressograph machines, installed lighting fixtures for same in basement, repaired, cleaned and oiled forty fan motors, installed wiring, buzzers and button connections in Offices of Commissioner of Public Works, Mailing and Payroll Divisions, installed new metal moulding, wiring, switch and receptacle plugs for fan motor outlets on third floor, removed old telephone lines from top of partitions and replaced same to meet new connections, installed new light fixtures in Statistical Division, removed and reinstalled mouldings, wiring and fixtures in new locations in the Bureau of Sewers and storerooms in basement. Installed new reversing switch and cabinet for testing machine motor, cleaned panel and switchboards, made all general repairs to lighting and Bell system.

Painting.—New hard wood floors in two rooms were filled with wood filler, sand papered and finished with two coats of shellac and one coat of hard oil finish. Partitions cleaned and varnished and parts of the Laboratory painted. All panel boxes and electric tubing in building painted, five office partitions painted, grained and varnished. Side walls in one office painted, glass panels in office doors lettered, windows in office of Bureau of Street Cleaning painted and stippled. All radiators

finished in aluminum. Two hundred and twenty feet of new partition painted, grained and varnished. Private office of the President grained and varnished, stained and varnished telephone booth in same. Painted and lettered bulletin board and two signs for Local Board room, puttied and painted sash on first and second floor, windows glazed as required. Lettering removed from three doors and relettered with gold and varnished. Storage closet in office of Bureau of Buildings grained and varnished. Desk, chairs and other furniture cleaned and varnished.

St. Mary's Lyceum.

Magistrate's and Municipal Courts.

Carpentry.—Removed Judges' desks, platform railings, etc., from one location to another in the Court Room where repairs were made, floors and other woodwork repaired where necessary. Repairs were made to stairways and all cutting and carpenter work done for plumber to install new toilets. Benches, desks and chairs repaired and general repairs have been made as required throughout building.

Plumbing.—Installed new toilet room, consisting of closet and basin waste and water supply connections, new soil and vent pipes, from cellar to third floor.

Steamfitting.—Repaired leak in water column and placed new water gauge on same, repaired radiator on second floor, also repaired leaks in steam line between first and second floor. Removed one radiator to different location and run new connections for same, packed and repaired radiator valves and connections.

Tinsmithing and Sheet Metal Work.—Made and put up galvanized iron risers on stair casings, repaired ash cans, shovels, etc.

Electrical Work.—Removed conduit, wires and fixtures, and reinstalled same in a different location in the Court Room due to change of location of Judges' bench, rearranged fixtures in prisoners' pen. Installed fan motor in Clerk's Offices, repaired lighting circuit and fixtures, arranged temporary lights for the use of plumber and carpenter.

Painting.—The ceilings, side walls and wood work of the First District Court Room, Judges' Room, Clerk's Room and Complaint Clerk's Room, were painted and radiators finished with aluminum, prisoner's pen, toilet rooms, upper and lower hallways of this building were also painted, the Judges' Bench, Clerk's desk, two large cabinets and tables were also cleaned and varnished. All settees in Court Room cleaned and varnished. Finished ceiling under stairway and the side walls in basement with Muresco.

INTERIOR BATH.

Carpentry.—Doors, windows, casings and other woodwork repaired, new bolts put on bathroom doors, bathroom door hinges renewed and repaired.

Plumbing.—Cleaned floor drains, shower heads, faucets, closet tanks and waste tanks and pipes. Overhauled and repaired shower valves, took down marble slabs, and repaired checks of shower valves behind same and reset slabs. Renewed washers on valves, etc., from time to time as required.

Steamfitting.—Connected up new steam gauge and new hot water thermometer, repaired damper regulator, also radiator and air valves, repaired main hot water valve leading to bath, repaired leaks in nipples in both manifolds of hot water boiler, also pressure gauge in same. Repaired and packed radiator valves, repaired leak in hot water boiler and water column and packed valves on hot water line.

Tinsmithing and Sheet Metal Work—Put stopper in boiler pipes, made and placed supports for boiler pipes and wired all connections, fitted copper saddles on doors, covered boiler pipes with asbestos, repaired skylights and leaders.

Electrical Work.—Repaired ventilating equipment and lighting fixtures, cleaned panel and switchboard, renewed fixtures in basement, renewed burned out lamps.

Painting.—The entire interior of building painted with four coats of paint, all hard wood cleaned and varnished, iron work painted with black asphaltum, radiators finished with aluminum and ceilings in basement finished with Muresco.

TOWN HALL, NEWTOWN.

Carpentry.—Built partitions in toilets, repaired cellar windows, put new sash cord in windows, built and put up two bulletin boards and made general repairs as required throughout building.

Plumbing.—Cleaned closets and soil pipes, thawed and repaired water pipes, renewed valve washers and made such other minor repairs as were necessary.

Steamfitting.—Repaired water column and safety valve, main stem and blow-off valve, packed and repaired all leaky radiators. Installed new radiator in Chief Clerk's Office, covered all steam pipes with asbestos covering and repaired damper regulator.

Tinsmithing and Sheet Metal Work.—Removed, cleaned flues and replaced boiler pipes, repaired leaders, ash cans and other utensils.

Electrical Work.—Recharged batteries and repaired equipment.

Painting.—Washed and scraped ceilings and side walls, cut out and filled cracks and prepared walls for painting, painted with three coats of paint, cleaned and varnished woodwork. All glazing done where required and the exterior of sash reputtied and repainted.

Town Hall, Flushing.

Carpentry.—Eased doors, put in sash cord, repaired locks, repaired furniture, and made general repairs as required.

Plumbing.—Repaired urinal tanks and faucets, cleaned closet and basin wastes, disconnected and repaired water meter, reset same and generally repaired plumbing in building

Steam Fitting.—Repaired leaks in section of boiler, repaired all valves and connections of same, repaired damper regulator and all radiators throughout building.

Tinsmithing and Sheet Metal Work.—Made temporary repairs to roof and values. Made and installed galvanized iron pipe connection with boiler and chimney, put up sheet metal on cellar ceiling over boiler, pointed up boiler with asbestos cement, repaired and put up leaders, repaired ash cans, etc.

Electrical Work.—Installed light outlet in Janitor's locker, repaired lighting circuits in Office of Public Buildings, Magistrate's Court Room, Judge's room and hallway. Installed metal mouldings, wiring and switch for porch light. Repaired fixtures in boiler room, renewed lamps, cleaned panels and switchboard.

Painting.—Washed and scraped off old Muresco from ceilings and side walls of six rooms and hallways of Janitor's apartments, painted same with three coats of paint. Cut out loose plaster, prepared and painted ladies' toilet. Finished with aluminum five radiators and steam pipes. Painted main roof, rear and side extension roofs and front porch roof. Painted metal ceilings in the Office of Public Buildings and put on three coats of paint in the main toilet. Doors, windows and trim painted with two coats of paint. Hard wood partitions cleaned and varnished. Sash reglazed wherever required.

Grounds—The grounds adjoining the building have been regularly cared for, flower beds planted, shrubbery trimmed and lawns kept in order.

TOWN HALL, JAMAICA.

Carpentry.—Built entire new porch on Flushing Avenue side of the building, repaired front and rear porches, repaired floors and base, rehung double action doors, repaired gutters for tinsmith, put in new sash cord, repaired window frames, took down storm porch, repaired and put up same in Fall, built and hung bulletin board, repaired furniture and made general repairs as required.

Plumbing—Cleaned closets and urinal wastes, repaired closets and taucets and urinal tanks, thawed and repaired frozen water pipe, disconnected water meter, had same repaired and reset, repaired drinking fountain in front of building, made general repairs to plumbing when necessary.

Steam Fitting.—Repaired automatic damper regulator and water column, also blow-off valve on both boilers, put on new air valves, packed and repaired all radiators, radiator valves. Put in valves on water lines to boilers, repaired and packed main valves on boilers and blow-off valves, put in new diaphragm.

Tinsmithing and Sheet Metal Work.—Repaired galvanized iron leaders, roofs and gutters, repaired boiler doors, repaired roofs of extensions, made and installed strainers in leader pipes, repaired ash cans and other utensils.

Electrical Work.—Repaired bell and annunciator system and recharged batteries. (During the year an electric lighting system has been installed by contract.)

Painting.—Painted new leaders and gutters, cut out and replastered cracks in side walls, painted metal ceilings two coats and side walls three coats, grained and varnished woodwork in the Special Sessions Court Room, scraped rust from 516 feet of iron fence and painted same with one coat of red lead and one coat of dark green, painted new side porch three coats and all woodwork on front and rear porches, painted main and extension roofs, gutters and leaders, reputtied and painted sash.

Iron Fence.—170 feet of new iron fence was put up and 346 feet of old iron fence repaired under contract.

Grounds.—The grounds adjoining the building on the east and north sides have received regular attention.

COMFORT STATION, JAMAICA.

Carpentry.—Put on door checks, eased doors, put on new seats in toilets, made cuttings for plumber, repaired closet tanks and made general repairs.

Plumbing.—Cleaned and repaired sewer pipes, cleaned and repaired closets and faucets, urinal and basin wastes. Put in thirteen new closet tanks and seats, made alterations to water supply, flush tanks and tank lifting rods, celaned and repaired flushometers.

Tinsmithing and Sheet Metal Work.—Made and put up sheet metal casing for protection to electric switches, made and put on wrought iron cleats on closet seats.

Electrical Work.—Repaired ventilating motor machinery, installed starting box and switches, conduit and wiring for same, cleaned panel board and switch boxes and repaired lighting fixtures.

Painting.—Replastered and painted ceilings, painted sash, cleaned and varnished toilet doors, aluminumed all steam pipes and iron railings. New vault lights were placed in sidewalk over the Comfort Station, and one broken marble partition was replaced, both under contract.

COUNTY BUILDING, JAMAICA.

This building is now in course of reconstruction under contract. Previous to the contractors taking charge the following work was performed under the supervision of this Bureau:

Carpentry.—Removed oak office partitions, Judge's bench, railings, etc., from the Surrogate's and County Clerk's offices and stored same in the basement of the Town Hall, Jamaica.

Plumbing.—Repaired closets, urinal tanks and faucets, cleaned urinal, basin and house drains, kept all plumbing in a serviceable condition.

Steam Fitting.—Repaired leaks in manifold of hot water boiler and packed hot water valves.

Tinsmithing and Sheet Metal Work.—Made temporary repairs to roof and valleys on building, relined closet tanks and made miscellaneous repairs.

Electrical Work.—Extended private telephone system to basement book bindery, installed portable fixtures, repaired private telephones, bell and lighting systems.

Painting.—Glazed throughout building as required.

MAGISTRATE'S COURT, FAR ROCKAWAY.

Carpentry.—Repaired floors and siding, Judge's bench and furniture, put in sash cords, repaired locks, made jambs for iron gate and hung same and made all general repairs as required.

Plumbing.—Repaired closet tanks, thawed and repaired frozen water pipes.

Steam Fitting.—Repaired leaky radiator, water column, damper regulator, safety valve, repacked radiator valves throughout building. Installed two radiators in toilet and storeroom, packed boiler valves.

Tinsmithing and Metal Work.-Taking apart, cutting and fitting in position

window guards, drilled and countersunk holes for fastening same.

Electrical Work.—Installed new circuit wires, renewed lamps and made general repairs as required.

IN GENERAL.

In addition to the work performed in the buildings directly under the supervision of this Bureau, the following has been done by the employees:

Carpentry.—Rebuilt one story frame office building situated in 15th Street between 4th and 5th Streets, College Point, occupied as a local office of the Bureaus of Highways, Sewers and Street Cleaning. Work consisted of putting on new siding, laying new flooring, putting on wainscoting, renewing sash and doors, making necessary cuttings for plumber and generally overhauling. Took down and rebuilt twenty feet of partition and built several closets in the office of the Topographical Bureau. Built shed in the Highway Corporation Yard, Nott Avenue, Long Island City, 158 feet long, 25 feet wide and 16 feet high. General jobbing work at Disposal Plants and Section Stations for the Bureaus of Sewers and Street Cleaning.

Plumbing.—Put in water supply pipe at Corporation Yard, College Point. Put in new closet and urinal with water supply, waste, vent and soil pipes at Corporation Yard, Nott Avenue, Long Island City. Installed new toilet room, closet basin, waste, vent and water pipes from street at Corporation Yard, College Point. Put in new waste and water supply pipes, sink, etc., at Ingleside screen house, Bureau of Sewers. Put in closet and sink, soil, waste, vent and water supply with sewer pipes at Highway. Corporation Yard, Flushing.

Tinsmithing and Sheet Metal Work.—Overhauled sheet metal work for Bureau of Highways at Corporation Yard, Long Island City. Made and put up galvanized iron smoke pipe protectors, galvanized iron flanges, hoodcaps for pipes, made and placed new leaders and repaired roofs and gutters at Corporation Yard, College Point. Put on new tin roof for closet shed at Corporation Yard, Long Island City.

Painting.—Painted with three coats of paint the exterior and interior of the one-story building 72 feet long, 17 feet wide and 12 feet high, reglazed sash, cleaned and varnished desks and chairs at the Corporation Yard, College Point. Removed old wall paper and loose plaster, replastered, painted and Murescoed six rooms and hallways in building situated at North First Street, Jamaica, occupied as a sub-station of the Bureau of Street Cleaning.

Masonry.—The following mason work has been done under the supervision of this Bureau by masons temporarily assigned from the Bureau of Highways:

Queens County Court House.—The back walls of three boilers were taken down and rebuilt, one boiler fireplace was relined with fire brick, new concrete was relaid where taken up to put in exhaust pipe in boiler room. In the basement hallway loose plaster was cut out, painted with damp proof paint and replastered. An opening for doorway was made on the first floor leading from Special Term

Court Room to the Judge's private room and all necessary brick and plaster work finished.

Borough Hall.—All necessary brick and plaster work made necessary by the installation of a new electric system was done on the second and third floors of the Post Office building, three doorways cut through a brick wall leading from the Hackett building to the Post Office building and necessary work done.

Saint Mary's Lyceum.—The boiler was relined with fire brick and plastering was done in the Magistrate's Court and Clerk's room.

Town Hall, Jamaica.—Plastering was done where necessary in the basement hallway, the boiler pit and parts of floor recemented.

Magistrate's Court, Far Rockaway.—Chimney on roof was rebuilt and cemented, brick work on wall leading to cellar was repaired, boiler pit rebuilt and floated with cement. A new man-hole was built in front of building to clean out main sewer trap.

The Mechanical Force employed in this Bureau, during the year was as follows: 2 foremen of laborers, 1 foreman of plumbers, 2 carpenters, 1 steam-fitter, 1 tinsmith, 1 electrician, 7 painters, 1 mechanic's helper, 5 laborers assisting mechanics.

Interior Bath.—The interior bath has been used extensively by males and females during the year as shown by the following monthly statement of attendance:

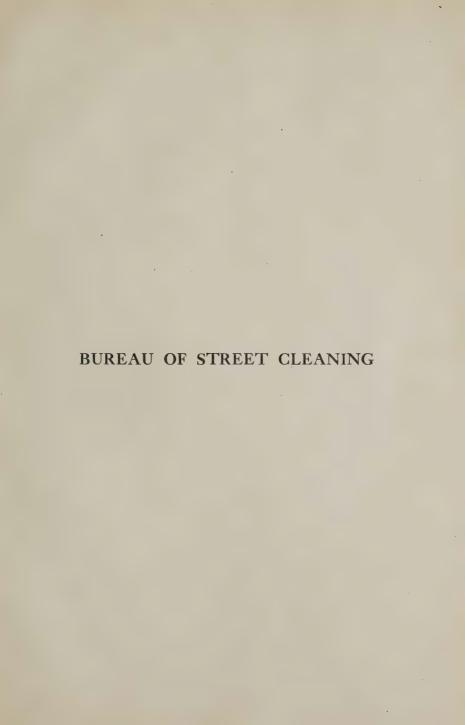
Ma	iles.	Fema	les.
Jan. 734 Feb. 1,077 Mar. 2,364 Apr. 2,530 May 4,982		Jan. 99 Feb. 330 Mar. 645 Apr. 1,021 May 1,416	
June5,123	Dec3,134	June2,128	Dec1,871
Total	50.005	Total	22 382

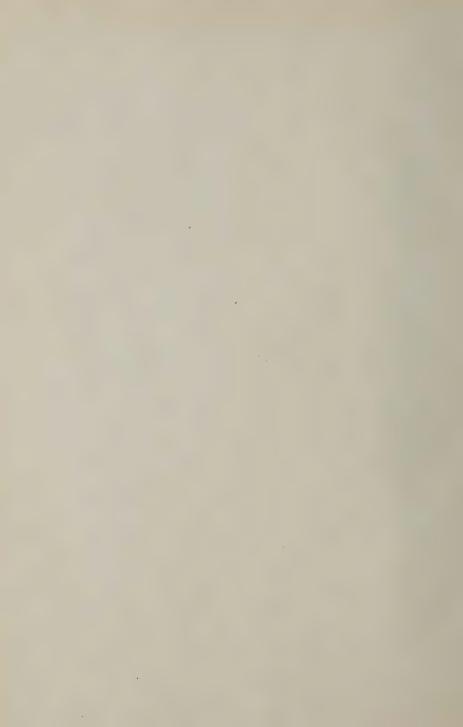
Note.—Bath closed for repairs: Men's side from Jan. 20 to Feb. 12, women's side from Jan. 8 to Feb. 12.

Floating Bath.—The floating bath has not been in commission during the past year owing to the fact that funds required to make necessary repairs were not available until too fate in the season, also owing to the objection of the Department of Health to the use of floating baths in the rivers around New York City on account of the polluted condition of the same. The bath is now stored in the basin foot of 23rd Street, Brooklyn.

Office Equipment and Supplies.—Janitor's Supplies.—Office equipment, such as furniture, floor covering and all necessary office supplies, have been provided for the offices of the Bureaus under the jurisdiction of the Borough President upon requisition. All cleaning material, fuel, etc., required by the Janitors of the various buildings have been regularly supplied during the year.

All of which is respectfully submitted.





REPORT OF THE BUREAU OF STREET CLEANING FOR THE YEAR ENDING DECEMBER 31, 1914.

Duties of Bureau:

The duties of the Bureau of Street Cleaning are to clean the streets of the borough which are paved with Class "A" pavement; to collect and dispose of garbage, ashes, rubbish and street sweepings, and to remove snow and ice from the principal thoroughfares of the borough.

Methods Employed:

During the year streets were cleaned by hand and by horse-driven sweeping machines. Refuse material was disposed of at inland dumps, crematories, scows, piggeries and by reduction.

Garbage, ashes, rubbish and street sweepings were collected by horses and carts, trucks and teams, employed by the Bureau at a specified rate per day.

Snow and ice were removed by the Bureau force and by emergency laborers, trucks and teams, horses and carts, employed by the day.

Railway companies operating in Queens removed snow from designated streets under an agreement with this Bureau by which they were to remove snow and ice from an area of 638,635 sq. yds.

Summary of Year's Work:

Refuse collections were extended to approximately 25,000 additional residents of Queens Borough, and a new development in the Fourth Ward, known as Idlewild Park, was included in our collection territory.

Approximately four miles of paved streets were added to our cleaning area.

The contract price for furnishing and operating scows, tugs, labor, etc., for the final disposition of garbage in the Fifth Ward, for the year 1914, was \$4,700, this estimate being lower by \$5,000 than the cost of this work for the previous year.

In addition to removing garbage by scow it became necessary to arrange to have the rubbish and ashes removed from the Fifth Ward during the summer months of 1914, as an injunction was obtained restraining the City from depositing material of this kind at inland dumps in this vicinity. The cost of this work was \$240 a week.

The first contract for the privilege of reclaiming material deposited at dumps of this Bureau was let during the year 1914, the contract price for this privilege being \$88 a week. The contractor also furnishes the labor and implements for leveling and grading dumps and for feeding and stoking incinerators.

Proposed New Construction:

Bids for the construction of a waste destructor, section station and stable, to be erected at Flushing and Metropolitan Avenues, Maspeth, were advertised for and received. This work has been delayed due to the protests of residents of this locality. The estimated cost of this work, including site, is \$202,000.

The Corporation Counsel has been directed to commence condemnation proceedings for the acquisition of site in the Fifth Ward (Rockaways), on which will be erected a waste destructor, section station and stable. The estimated cost of same, including site, is \$101,000.

Corporate Stock, to an amount not exceeding \$75,000, has been authorized to provide means for the payment for site for refuse destructor and section house for the Bureau of Street Cleaning, and for central garage, yard and buildings for the Bureaus of Sewers and Highways, architect's fees for preliminary study, and estimated cost for the erection of buildings.

Several pieces of property are now under consideration and the purchase of the most desirable one will be recommended to the Board of Estimate early in 1915.

A Sanitary Engineer and Architect was employed by this Bureau to assist the development of a refuse-destructor system for this borough.

The Board of Estimate and Apportionment has been requested to authorize the issue of Corporate Stock in the sum of \$200,000, for the purchase of site and construction of a waste destructor, etc., at South Jamaica.

New Equipment:

A new type of rubbish truck of 300 cubic feet capacity was purchased during the year 1914, and operated successfully in the Fifth Ward (Rockaways).

Recommendations:

I recommend that section stations be secured by this Bureau at Richmond Hill, Rockaway Beach and Far Rockaway.

That funds be provided for the acquisition of site and erection of refuse destructor, section station, stable, etc., be located in the Third Ward.

That a special request be made to the Board of Estimate to authorize the issue of Corporate Stock in the sum of \$200,000, for waste destructor in the Fourth Ward.

(Crematories in the Third and Fourth Wards are unable to dispose of all the garbage and rubbish collected).

That condemnation proceedings now pending, for the acquisition of site in the Fifth Ward, be conducted.

That a site be secured on which to erect a waste destructor in Long Island City, in order that a more sanitary method of disposing of garbage and rubbish may be available.

The attached tables, showing quantities of work performed, distribution of force employed, and cost data, are respectfully submitted.

BUREAU OF STREET CLEANING-EXPENSE DISTRIBUTION AND UNIT COST DATA FOR THE YEAR 1914. Indirect Charges. (General.) TABLE No. 5.

				Fauinment					
Budget Classification.	Admin- istration Service.	Motor Vehicle Service.	Equipment Service, Executive.	Service, Collection and Disposal of Refuse.	d Super- vision.	Vacations.	Stores.	Corporation Yard and Section Sta- tion Service.	Live Stock Service and Stable Expense.
Personal Service—Salaries, Regular Employees	\$9,504.16	\$1,050.00		\$4,512.90	\$48,713.22	\$5,693.62	\$1,643.19	\$1,839.43	\$1,791.20
Supplies— Office Supplies Office Supplies Motor Vehicle Supplies Free Supplies	97.55	157.54		32.90					
Materials— Building Materials Ceneral Plant Materials.		: :	: :	817.74	: :	: :		13.63	: :
Equipment Plant Equipment General Plant Equipment. Motor Vehicles and Equipment. Motorless Vehicles and Equipment Wearing Apparel Office Equipment		137.51	\$31.35	3,367.11				61.05	315.40
Contract or Open Market Order Service— General Repairs Storage of Motor Vehicles Motor Vehicle Repairs	: : :	240.00		561.20	: : :		: : :		8.35
Transportation: Hire of Horses and Vehicles With Drivers Carfare Expressage and Delivery Sheeing and Boarding Horses.	259.39			28.69 39.55 15.11			226.21 4.86 100.00	33.15	1,938.29
Communication: Telephone Service	7.95			4.00					
	\$9,898.01	\$1,915.89	\$162.34	\$142,308.00	\$48,713.22	\$5,693.62	\$1,974.26	\$2,151.31	\$4,117.24

TABLE No. 6.

Bureau of Street Cleaning, Queens—Expense Distribution and Unit Cost Data for the Year 1914.

DIRECT CHARGES.

Final Disposition at Crematories.

	ub Totals.	Totals.	Cu. Yds.	Unit Cost.
OPERATION—				
Personal Service:	Φ4.070.00			
Wages, Regular Employees Supplies:	\$4,979 80	* * * * * * * * *		
General Plant Supplies	1 50			
Fuel Supplies	1,210 17	• • • • • • • •		
Equipment Issued as Consumable Stores:				
General Plant Equipment	333 40			
Contract or Open Market Order: Hire of Horses and Vehicles with				
Drivers	3 50	\$6,528 37	40,504	.161+
General Plant Service		20 00		
REPAIRS AND REPLACEMENTS— Building and Structure: Materials:				
Building Materials	137 49			
General Plant Materials	93 44			
Contract or Open Market Order General Repairs	768 00	998 93		
Plant Equipment:	700 00	930 73		
Materials: Building Materials	41 33			
General Plant Materials	372 67			
Equipment Issued as Consum-				
able Stores: General Plant Equipment Contract or Open Market	151 43			
Order: General Repairs	140 00	705 43		
		\$8,252 73		.161+
Final Disk	:4: 4 T) b -		
Final Dispe	osition at L			
JPERATION—		rumps.		
Personal Service:	16 400 50			
Personal Service: Wages, Regular Employees\$	316,489 59	·····		••••
Personal Service:	516,489 59			•••••
Personal Service: Wages, Regular Employees\$ Supplies: Laundry, Cleaning and Disinfecting Supplies	5 40			
Personal Service: Wages, Regular Employees\$ Supplies: Laundry, Cleaning and Disinfecting Supplies Equipment Issued as Consumable				
Personal Service: Wages, Regular Employees\$ Supplies: Laundry, Cleaning and Disinfecting Supplies				
Personal Service: Wages, Regular Employees\$ Supplies: Laundry, Cleaning and Disinfecting Supplies Equipment Issued as Consumable Stores: General Plant Equipment Contract or Open Market Order	5 40			
Personal Service: Wages, Regular Employees\$ Supplies: Laundry, Cleaning and Disinfecting Supplies Equipment Issued as Consumable Stores: General Plant Equipment Contract or Open Market Order Service:	5 40			
Personal Service: Wages, Regular Employees\$ Supplies: Laundry, Cleaning and Disinfecting Supplies Equipment Issued as Consumable Stores: General Plant Equipment Contract or Open Market Order	5 40		402,584	
Personal Service: Wages, Regular Employees\$ Supplies: Laundry, Cleaning and Disinfecting Supplies Equipment Issued as Consumable Stores: General Plant Equipment Contract or Open Market Order Service: Hire of Horses and Vehicles with Drivers	5 40			.043+
Personal Service: Wages, Regular Employees\$ Supplies: Laundry, Cleaning and Disinfecting Supplies Equipment Issued as Consumable Stores: General Plant Equipment Contract or Open Market Order Service: Hire of Horses and Vehicles with Drivers NSPECTION— Personal Service:	1 91 1,081 54	\$17,578 44		.043+
Wages, Regular Employees\$ Supplies: Laundry, Cleaning and Disinfecting Supplies Equipment Issued as Consumable Stores: General Plant Equipment Contract or Open Market Order Service: Hire of Horses and Vehicles with Drivers INSPECTION— Personal Service: Wages, Regular Employees Contract or Open Market Order	5 40			.043+
Personal Service: Wages, Regular Employees\$ Supplies: Laundry, Cleaning and Disinfecting Supplies Equipment Issued as Consumable Stores: General Plant Equipment Contract or Open Market Order Service: Hire of Horses and Vehicles with Drivers INSPECTION— Personal Service: Wages, Regular Employees	1 91 1,081 54	\$17,578 44		.043+

TABLE No. 6-Continued.

Functional Activities.	Sub Totals.	Totals.	Cu. Yds.	Unit Cost.
Final Di	sposition at	Scows.		
OISPOSAL OF GARBAGE AND RUBBISH— Contract or Open Market Orde Service: General Plant Service (Disposa of Garbage)	r .1 . \$5,052 50	\$5,052 50	6,364	\$0.793+
General Plant Service (Disposa of Rubb, and Ashes)		1,920 00	11,346	.169+
		\$6,972 50		

TABLE NO. 7.

BUREAU OF STREET CLEANING, QUEENS.

Report of Snow Storms.

1914	o	Depth of fall (inches)	Cubic Yards Removed
February 13 and February 16	14	9.7	945
February 19 February 23 and March 1 and 3 .	24		146,396
			147.341

TABLE NO. 8.

BUREAU OF STREET CLEANING.

Maximum Force Employed During 1914.

Superintendent	1
Clerk	4
Stenographer & Typewriter	1
District Superintendent	5
Section Foreman	16
Assistant Section Foreman	14
Assistant Foreman	2
Dump Inspector	1
Assistant Dump Inspector	2
Dump Boardman	14
Stoker	1
Coal Passer	4
Sweeper	196
Laborer	33
Driver	1
Horse and Cart	132
Team and Truck	60
Team and Sweeper	6
Horse and Sprinkler	6
Auto Engineman	1
The Digitalian	1

TABLE NO. 8—Continued.

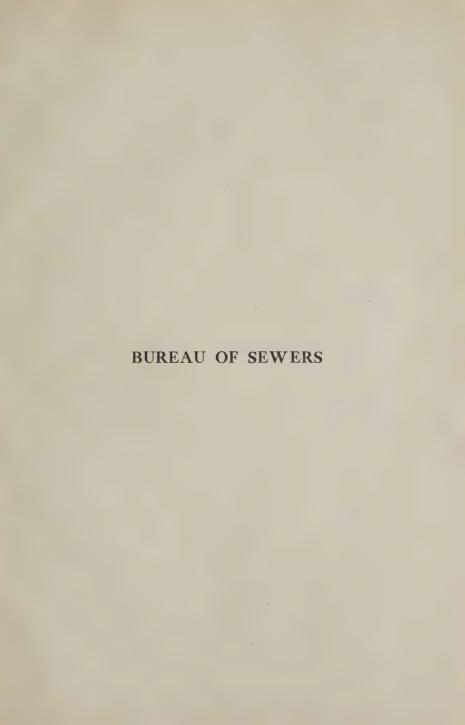
	Additi	onal Force	· Employed	in Snow	and Ice	Removal.	
Laborer							1503
Team &	Truck						176
Horse &	Cart						28

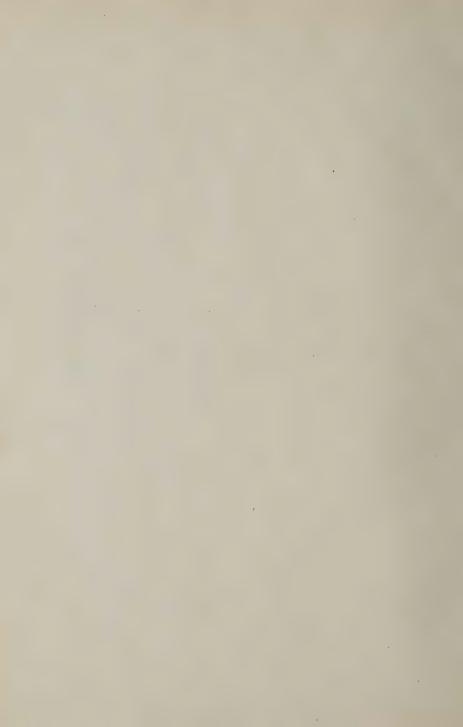
TABLE NO. 9.

BUREAU OF STREET CLEANING.

Distribution of Bureau Force as of December 31, 1914.

Title	Admin. Office	Ward 1	Ward 2	Ward 3	Ward 4	Ward 5	Total
Superintendent	1						1
Clerk	3						3
Stenographer and Typewriter	1						ī
Storekeeper	1						1
Auto Engineman	ī						1
District Superintendent		1	1	1	1	1	5
Section Foreman		5	5	3	2	ī	16
Assistant Section Foreman		4	3	2	4		13
Assistant Foreman		1	1			4.	2
Dump Boardman		3	1	5	4	1	14
Stoker		1					1
Driver		1					1
Coal Passer		ī			2	1	4
Laborer		10	9	3	9	2	33
Sweeper		72	65	20	29	10	196
Horse and Cart		36	30	24	33	6	129
Truck and Team		8	22	2	10	9	51
	7	143	137	60	94	31	472





BUREAU OF SEWERS—ANNUAL REPORT ON MAINTENANCE FOR THE YEAR ENDING DECEMBER 31, 1914.

The maintenance forces in this Bureau are employed uniformly throughout the year without change in number or personnel, except for the filling of vacancies that may occur, or the temporary interchange of men between sections as occasion demands. There has been but little increase in our forces since 1911, while the sewer systems have been rapidly extended. Thus the increasing amount of work demanded of the gangs has resulted in some decrease in unit costs. It was necessary, however, to provide an additional gang in the Richmond Hill section this year, as the sewers recently constructed there cover an entirely new and extensive area, approximately 2,000 acres.

In the well developed sections, as in Long Island City and in Ridgewood, where large numbers of catch basins are provided in close proximity, basin cleaning gangs are specially detailed on this work. In other sections where there are fewer basins and they are consequently farther apart, the basin cleaning is done by gangs employed on general sewer and culvert cleaning, but cannot be as economically performed, since these general gangs are provided with but one horse and cart.

Since the first of the year the testing of cement and other construction materials, performed for some time under the direction of this Bureau, for both the Sewers and Highways Bureaus, has been turned over to the new Borough laboratory and the cement tester transferred to that schedule. The original report and record forms for cement testing were printed to provide for this anticipated change.

AMOUNT OF WORK DONE BY THE SEWER MAINTENANCE FORCES.

WORK PERFORMED DURING THE YEAR 1914.

		Qu	arters Endi	ing	
	March 31.	June 30.	September 30.	December 31.	Annual Total.
Number of basins cleaned. Loads removed Cubic yards removed. Basins relieved Basins repaired Linear feet of sewers cleaned Loads removed Linear feet of sewer repaired Linear feet of drains cleaned Loads removed Cubic yards of snow removed from gutters Manholes cleaned Manholes repaired	1,914 1,525 1,711 6,820 4 518,119 1,331 542 67,946 3,727 7,000 3,727 16	874,100 1,679 541 78.825	2,857 384	2,426 2,577 2,663 1,658 27 738,194 1,882 377 60,016 662	9,328 10,291 9,827 9,725 197 2,997,463 6,305 1,915 265,462 1,653 16,388 -295
Gallons of sewage pumped and treated Newtown disposal plant Jamaica disposal plant Far Rockaway disposal plant			268.542.000	66,923.000 250,822,000 86,794,000	255.925.000 1,078.345.000 466,564,750

A comparison of the work done and the unit costs for the years 1911, 1912, 1913 and 1914 is made in the following table:

В					
L	Ω	D)	4	7.4	

	1911.	1912.	1913.	1914.
Number of basins cleaned	6,945	8,847	9,910	9,328
Loads removed	9.490	10.793	10,775	10,291
Cost per basin	\$3.50	\$2.93	\$2.61	\$2.4
Cost per cubic yard	\$2.54	\$2.40	\$2.37	\$2.3
Total cost	\$24,174.00	\$25,899.00	\$25,857.00	\$23,147.0

SEWERS.

	1911.	1912.	1913.	1914.
Number of miles of sewer cleaned Number of manholes cleaned Cost per mile Total cost	245 7,902 \$93.00 \$22,922.00	351 10,335 \$70.36 \$24,696.00	\$11,450 \$72.40 \$30,054.00	570 16,385 \$46.00 \$26,190.00

JAMAICA DISPOSAL PLANT.

At the Jamaica Disposal Plant the condition most disturbing to the satisfactory operation of the plant is the very limited area available for the drying of sludge. The wet sludge pumped from the sedimentation tanks consequently accumulates to a depth of 3 or 4 ft., which is four times as great as should be permitted for rapid and convenient drying and removal. As these sludge drying beds are for the greater part of the year filled with wet sludge, with the possibility of violation of an injunction prohibiting encroachment on adjoining property, the sedimentation tanks cannot be cleaned as often as is desirable. The result is that the accumulated sludge in the tanks so reduces the cross section of the sewage flow that the higher velocities attained preclude the possibility of effective sedimentation for clarification; very strong septic action in the old sludge also follows, resulting in the fouling of the fairly clear effluent by large quantities of black sludge occasionally blown up into it from the bottom of the tanks by the formation of gas bubbles. The sedimentation tanks should be cleaned at least once a week, whereas we have been compelled to allow them to run for several months under existing circumstances. More of the adjoining land should be purchased for the needs of this plant, as well as for the Bureau of Street Cleaning, whose incinerator occupies part of the land originally provided for sewage disposal. The injunction above referred to was made permanent after trial of the damage suit Bergen vs. The City of New York, on October 13th, 1914. Since the field tests and pot experiments on the fertilizing value of sludge were conducted last year in co-operation with Professor O. S. Morgan of Columbia University, greater interest has been displayed in the matter; several additional farmers, by hauling away this material, indicating that they considered it at least worth the cartage during the winter months.

Outside the regular work done at this plant by departmental labor, the following work was performed by contract on open market orders:

Scraping and repainting all structural steel work in the building; new cornices, and removal of the old stock in disuse since commercial electricity was substituted for steam power.

FAR ROCKAWAY DISPOSAL PLANT.

The flow of sewage to this plant has been steadily increasing, and a large additional contribution has been brought to the plant by the construction of the Redfern Avenue sewer. This also necessitated the extension of the bar screen in the receiving well to cover the new sewer inlet. Other work done by the contract was as follows:

Renewal of valve seats, valves and springs in 2 Snow Plunger Pumps; stack repair; repairing and repainting a portion of the roof; and painting the inside of the building. It will soon become necessary to make thorough repairs to the 2 electric-driven centrifugal sewage pumps, used formerly at the St. Nicholas Avenue sewer and installed here as auxiliary to the steam-driven pumps.

The three pneumatic ejector stations, driven by compressed air from the main plant, have given very little trouble since they were overhauled and repaired last year. The Wavecrest and Ostend electric-driven centrifugal sewage pumping stations are also giving very satisfactory service.

NEWTOWN DISPOSAL PLANT.

On account of the comparatively small quantity of sewage (800,000 to 900,000 gallons per day) pumped and treated at the Newtown Plant, its operating costs per million gallons has appeared very high, since with the steam-operated plant the same force is required on each eight-hour shift as would be needed to handle 10,000,000 gallons, making the unit cost appear ten times as great. Since, however, the method provided at this plant for the disposition of sludge is by steam drying and incineration under the boilers, these boilers and the steam operation in general could not well be abandoned in favor of more economical pumping by commercial electric power, until some satisfactory alternative method of handling the sludge were obtained. Experiments in 1913 at the Jamaica and Far Rockaway Plants with two devices for drying sludge, led to the installation at the Newtown Plant, with the consent of the Borough President, given on January 14th, 1914, of an electro-chemical process of sewage purification invented by Mr. C. P. Landreth. This process promised not only a highly purified effluent, but also an inoffensive sludge. The apparatus furnished for these experiments was capable of treating only 25,000 gallons per day, but the results obtained were very favorable and promised well for its operation on a larger scale. However, in November representatives of the Sewer Plan Committee and the Bureau of Municipal Research, in a report on tests made independently, expressed doubt as to the process being used effectively and economically in the treatment of the entire flow at the plant. It was, therefore, decided to test the process further and permission was granted to the Electro-Chemical Corporation for the installation without cost to the City of similar apparatus of sufficient capacity to treat all the sewage pumped, and tests are to be continued on the larger and improved machine.

The power lines of the New York and Queens County Electric Light and Power Company were extended to serve this plant, and power was available on March 16th, and was metered separately for use in the electro-chemical process. The installation of the electric-driven centrifugal sewage pump started in 1913 was not at that time completed, but was finally accepted on August 7th. It had been erected in place of one of the two steam-driven pumps, looking towards the ultimate electrification of the entire plant. The other steam pump is to be used, however, so long as it is necessary to generate steam for the drying and burning of sludge, and will be replaced finally with a reserve electric pumping unit of smaller capacity than the one now installed.

Other contract work at this plant during the year comprised screens in the sewage receiving well; relining the remaining steam-driven pump; new metal skylights over the tank room; new roof supports under the same; and repairs to roof gutters and leaders.

INGLESIDE SCREEN HOUSE.

The screen house built over the outlet of the Ingleside sewer, which was provided temporarily to permit immediate use of this sewer system pending more permanent provision for sewage treatment, had received only such attention as was needed, and could be given, by the sewer maintenance gang operating in this locality. On complaint of residents, however, three laborers were early this year detailed to give this screening plant constant attention, each man being employed on an eight-hour shift. A gas-burning incinerator for the screenings was installed and a gas supply main laid. A record is being kept of the weight of screenings burned and of the remaining ash.

SPECIAL SEWER CLEANING AND REPAIR WORK.

Sewer repair work by contract completed during the year included the reconstruction of the pipe sewer in the Boulevard, between Alexander and Jerome Avenues, Arverne; the replacement of the broken pipe outlet sewer in Division Avenue, Jamaica Bay, with cast-iron pipe; and a surface water drain with two park basins in Leavitt Street, from Osgood Place to Covert Place, Flushing.

During the fall the main sewer in Queens Boulevard, between Broadway and the Disposal Plant, was cleaned by our maintenance forces with a gasoline hoisting machine and trip-bottom buckets and the material was deposited on property adjoining the plant, where permission was granted by the owner. The amount of material removed was approximately 750 cubic yards, this accumulation being due to the fact that the sewer, while originally intended to carry storm water, was never extended to its natural outlet to permit the rapid escape of surface water with its heavy deposit of road grit. The extension of this outlet, when accomplished, will also permit the connection of more catch basins, which are urgently needed in this section.

The sewer in South Street, Jamaica, and its continuation in Rockaway Road, was broken and repaired three times during the year—on February 9th, on South Street, between Norris and Brown Avenues; on March 16th, on South Street, near Brown Avenue; and on May 16th, on Rockaway Road, 75 feet south of South Street, Attention has been drawn on many occasions to the possibility of sudden and extensive failure of this old cement pipe sewer, with consequent damage to property, over a wide area in Jamaica. The question of providing funds for its reconstruction seems to involve consideration of whether the expense is assessable on property benefited, or should be paid out of tax-levy funds.

The relief of flooded sections by means of portable gasoline centrifugal pumps has been continued during the year.

TABLE NO. 1.

REFUSE MATERIAL COLLECTED DURING 1914 AND PLACE OF DISPOSAL OF SAME.

(By Cubic Yards.)

		Q	Dumped In Lots	In Lots.				A	At Crematory	tory.					At	Scow		
	Ashes.	Gar- bage.	Rub- bish.	Mixed Ma- terial.	Sweep-	Total.	Gar- bage (Dept. Carts).	Gar- bage (Per- mit Carts).	Rub- bish (Dept. Carts).	Rub- bish (Per- mit Carts).	Total.	Pig- gery.	Ashes and Rub- bish.	Gar- bage (Dept. Carts).	Gar- bage (Per- mit (arts).	Rub- bish.	Total.	Total (All Kinds).
January	23,963	2,383	4,344	9,937	451	41,078	613	71	6,298	226	7,208	212	:	:	:	:	:	48,498
February	19,794	1,627	4,395	10,409	224	36,449	384	63	4.637	151	5,235	102						41.786
March	21,584	1,633	5,419	11,632	304	40,572	255	81	4,700	214	5,250	109		:	:	:		45,931
April	12,573	1,141	4,956	19,679	2.7++	41,093	754	81	5,646	259	6,740	17.2						48,005
May	6,939	1,217	8,250	22,092	3,515	42,013	1.015	78	4,562	276	5,931	178						48,122
June	5,078	1,911	9,951	24,275	3,721	44,936	1.024	162	4,388	440	6,014	294		954	2		956	52,200
July	4,365	2,436	8.756	22,868	4,137	42,562	1,208	160	4,795	347	6,510	69	1.689	1.710	:	294	3,693	52,834
August	3,654	3,507	9,672	20,952	3,795	41,220	735	199	3,385	441	4,760		5,002	2,204		1,070	8,276	54,256
Seg tember	3,897	2,363	8,039	21,571	3,657	39,527	1,706	245	4,981	376	7,308	:	2,676	1,414	:	615	4,705	51,540
October	6,002	2,530	10,565	24,371	4,159	47,627	2,038	95	6,003	357	8,493	42		80	:	:	80	56,242
November	7,853	1,515	8,805	20,734	3,456	42,363	1,430	:	3,511	55	4,996	:				:	:	47,359
December	11,079	1,361	8,606	23,741	3,255	48,042	1,247		3,533	24	4,804	:			:	:		52,846
	126.781	23.624	91.758	231.901	33 418	507 482	12 409	1.235	56.439	3.166	73.249	1 178	9 367	6 362	0	1 979	17 710	599,619
			1	-	2000	2000	100	4,9000	20,000	20110	1000	1111	11000	20000		11/11	2000	

AREA IN SQUARE YARDS OF PAVEMENT CLEANED BY BUREAU OF STREET CLEANING AS OF DECEMBER 31, 1914. TABLE NO. 2.

District (Ward)	Granite	Asphalt	Wood	Brick	Blue Trap Rock	Hassan	Concrete	Total Sq. Yds.
318	184.608	741.533	76.962	602.6				1.012.812
р	287,553	321,520	17,779	93,110	999	8,110		728.738
p	3,733	112,842	63,185				1.778	181,538
th th	78,783	164,369	17,020	4,700				264,872
тр 41	:	14,359	1,674	63,739				79,772
Total	554,677	1,354,623	176,620	171,258	999	8,110	1,778	2,267,732

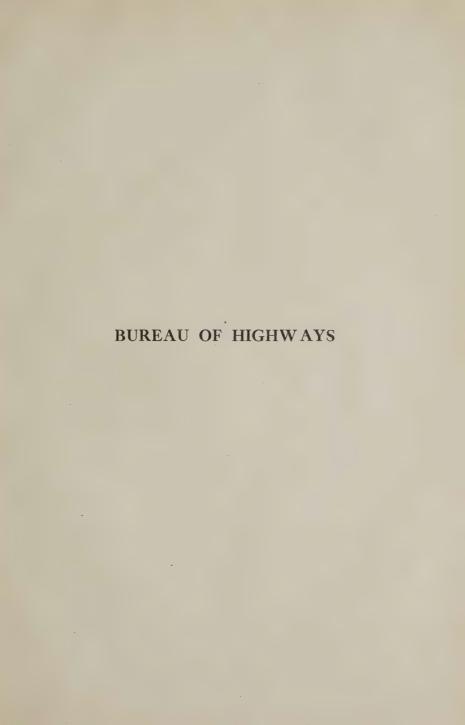
TABLE NO. 3.

STATEMENT SHOWING THE AVERAGE NUMBER OF TIMES PAYEMENT IS CLEANED, AS OF DECEMBER, 1914.

Total Sq. Yds. Cleaned in Each	District,	1,012,812 728,738 181,538 264,872 79,772 2,267,732
Once	Month.	5,216 3,067 31,296 8,797 48,376
Once Every Two	Weeks.	4,634 12,308 6,180
	1.	71,476 38,827 7,667
	2.	22,834 26,087 11,359 60,280
	3,	45,625 31,854 27,155 1,973 106,607
	4.	69,692 24,006 3,618 5,041
	5,	75,374 28,138 103,512
Week.	.9	317,028 484,098 83,340 9,000 51,102
saned Per	7.	8,782
Times Clo	Sq. Yds.	+2,163 +2,163 +2,163
Number of Times C	10.	19,520 1,033 8,733 8,733
	11.	38,642 5,100
	12.	322,869 74,220 74,220 42,188 126,648 1,500 567,425
	13.	4,200 23,537 27,737
	18.	11,120
	19.	7,087
	Ward.	1st Dist. 2d Dist. 3d Dist. 4th Dist. 5th Dist. Fotal

TABLE NO. 4.

Expense Distribution and Unit Cost Data for the Year 1914. Street Cleaning, Refuse Collection and Snow Removal.





REPORT OF THE BUREAU OF HIGHWAYS FOR THE YEAR ENDING DECEMBER 31, 1914.

Under Chapter 388 of the Charter of the City of New York, the Bureau of Highways is maintained by the President of the Borough for the purpose of regulating, grading, regrading, curbing, flagging and guttering of streets, the laying of crosswalks, the construction and repairing of public roads, paving and repairing of all streets and the relaying of all pavements removed for any cause, the filling of sunken lots and all matters relating thereto. This Bureau also issues permits for street openings, and incumbrances, also the erection of street signs.

Therefore the main functions of this bureau may be summarized as follows: The new construction of street pavements; the relaying of pavements; the maintenance of roadways, viaducts and streets, and removal of encumbrances, the supervision of work done by railroads and other public service corporations; the issuing of permits for street openings and incumbrances, and the erection of street signs.

In order that these functions may be properly performed there are employed by this bureau six ward foremen, twenty-six various foremen, twenty-two assistant foremen, four carpenters, three hundred and fifty laborers, ten steam roller engineers, two blacksmiths and one blacksmith's helper, twenty-five pavers, nine rammers, one stone mason, one brick layer and seven painters. This constitutes the average force employed during the year. These employees are made up into gangs which are distributed throughout the borough according to the work to be done.

They have to cover approximately 1,400 miles of roadways, which it is the business of this bureau to maintain, including new construction and the making of repairs. This work is very extensive and requires 189 distinct operations of classified expense distribution.

A number of statements appear in the following pages which will give a more detailed idea of what has been accomplished by the bureau during the year.

BUREAU OF HIGHWAYS.

STATEMENT OF WORK DONE BY MAINTENANCE FORCES FOR THE YEAR ENDING DECEMBER 31, 1914.

March 31st.	June 30th.		December 31st.	Annual Totals.
6,201	115,445	545,822	291,578	959,046
9,446	54,466	244,758	82,785	391,455
934	44,398	51,838	1,500	98,670
	323,008	196,307	99,222	618,537
181	300.343	523,916	104,642	929,082 327,518
813	130	254	153	1,350
	170		24	342 170
• • • •	28	5,220	2,285	7,533
12,183	135,175			147,358 150
	500			500
	9		*****	9
	31st. 6,201 9,446 934 181 17,350 813 12,183	31st. 30th	31st. 30th. ber 30th. 6,201 115,445 545,822 9,446 54,466 244,758 934 44,398 51,838 323,008 196,307 181 300 343 523,916 17,350 138,127 32,622 813 130 254 228 90 170 28 5,220 12,183 135,175 150 500	31st. 30th. ber 30th. ber 31st. 6,201 115,445 545,822 291,578 9,446 54,466 244,758 82,785 934 44,398 51,838 1,500 323,008 196,307 99,222 181 300,343 523,916 104,642 17,350 138,127 32,622 139,419 813 130 254 153 228 90 24 28 5,220 2,285 12,183 135,175 150 500

Statement of Work Done by Maintenance Forces for the Year Ending December 31, 1914—Continued.

	March 31st.	June 30th.	September 30th.	Decem- ber 31st.	Annua Totals
Cause words of mondayou					
Square yards of roadway covered with tarvia		` 61,824	404,469	24,065	490,358
scarified		12,849			12,849
sprinkled		130,396 119	485,540	90,182	706,118
Square yards of dirt wings filled in B. M. feet of timber used	* * * *,	121			12
Cubic yards of washouts filled in Square yards of broken stone spread	28	. 1,034		114	1,16
on picked-up bottom	877	35,865		420	36,742 420
Paved Streets.					
Square yards of granite pavement	•				
repaired	460	9,882	31,456	16,367	58,163
ment repaired	972	825			1,79
paired	. 180	5,749	13,262	3,120	22,31
sanded	6,000	1,840			7,840
Square yards of gutters paved	158	68		4,357	4,58
Linear feet curb reset Linear feet gutters cleaned	25 13,080	4,496 3,176	7,480	10,250 29,905	22,25 46,16
Linear feet guard rail built Square yards gutters cleaned	250 800	11,740	17,126	20,278	49,94
Square yards wood block pavement sanded	5,654		2,265		7,919
Square yards old pavement removed.	1,824 76				1,824 70
Cubic yards of washouts filled Square yards of trap rock pavement				• • • • • •	
repaired	13	341			35
repaired	15	3,566	8,162	771	12,51
ment repaired	• • • • 6	2,333	358	3,021	5,712
Linear feet headers dressed Square yards of flagstones repaired.		55 136	4,858 336		4,913 47
Square yards of asphalt pavement				. 11 400	20.00
repaired		7,379 4,644	9,279	11,429 234	28,087 4,878
Square yards of crosswalks repaired. Square yards of crosswalks cleaned.	••••	4,844			4,84
Square yards of stone gutters con- structed			15,559		15,559
Square yards of bitulithic pave- ment repaired			276		270
Unimproved Streets.					
Square yards of roadways graded Square yards of roadways sprinkled.	3,886	422,617 898,400	295,452 30,930	173,665	795,620 929,330
Linear feet of guard rail built around washouts	530	636	658		1.824
Square yards of gutters cleaned Linear feet of gutters formed and	8,994	23,063	17,873	970	50,900
cleaned	22,732 49	231,284	127,132	244,945	626,093
Square yards of sidewalks graded	1,044	1,799	2,854	19,800	25,49
Cubic yards of rubbish removed from gutters	14 1.590	460 3,223	14		474 4,827

Statement of Work Done by Maintenance Forces for the Year Ending December 31, 1914—Continued.

	March 31st.	June 30th.	September 30th.	December 31st.	Annual Totals.
Square yards of roadway oiled Square yards of oadway cleaned Square yards of roadway crowned	7,636	502,072 38,664	551,861	100,496	1,154,429 46,300
and repaired	740	182,195 68,145	112,486 55,748	53,327 150 451	348,748 124,043 451
Culverts.					
Linear feet of culverts built B. M. feet of timber used Linear feet_of pipe laid Cubic yards of excavation Cubic yards of filling Square yards of culverts cleaned Linear feet of culverts cleaned	16 190 698 120 95	113 1,795 595 315 200 60 200	109 1,427 388 195 16	442 1,322 379 287 25	129 2,536 4,042 1,202 777 101
Cubic yards of rubbish removed	92	29			200 121
Cubic yards of masonry laid		6	43		49
Asphaltic Concrete Streets. Square yards of roadway sanded Cubic yards of washouts on wings	20,700				20,700
filled in	24				24
Square yards of gutters cleaned	` 5		• • • • •		5
Trees, Weeds and Snow.					
Cubic yards of snow removed from streets	57,268			404	57,672
Snow	95,879				95,879
fire hydrants	3,424				3,424
crosswalks Linear feet of gutters cleaned of	1,357				1,357
snow	49,490				49,490
Square yards of slippery pavement	3,495				3,495
Square yards of snow removed from	5,400				5,400
crosswalks	34,418	• • • • •		1	34,418
removed	10	1	19	1	31
Square yards of weeds cut down and removed	550 109	5	139,476	166,691	306,722 109
PERMI'	TS ISSUI	ED, 1914.			
Permits to open streets to tap water p	ipes				1,738
Permits to open streets to repair wat	er connect	ions			446
Permits to open streets to make sewe					1,614
Permits to open streets to repair sewe					190
Permits to place building material on					477
Permits to construct street vaults Permits, special				******	285 585
Permits, special Permits to construct sheds					565
Permits to cross sidewalks					407

PERMITS ISSUED, 1914—Continued.

Permits to erect awnings	11
Permits for subways, steam mains and various connections	417
Permits for railway construction and repairs	66
Permits to repair sidewalks	600
Removing trees and shrubbery from street.	
Permits for new sewer connections	1,617
	42
Permits for other purposes (private sewers)	191
Permits for old sewer connections (repairs)	191
T-1-1	0.600
Total	8,692

PERMITS.

Comparative statement of Moneys received for the issuing of Permits as shown in the tables below:

FOR THE BUREAU OF HIGHWAYS.

	1911.	1912.	1913.	1914.
1st Quarter 2nd Quarter 3d Quarter 4th Quarter	\$5,458.28 2,694.30 3,931.46 4,228.74	\$6,864.86 3,984.63 5,358.59 4,999.21	\$7,290.45 15,636.28 10,831.70 11,618.25	\$6,014.44 16,521.00 14,561.99 24,550.95
Total	\$16,312.78	\$21,207.29	\$45,376.68	\$61,651.38

FOR THE BUREAU OF SEWERS.

	1911.	1912.	1913.	1914.
1st Quarter 2nd Quarter 3d Quarter 4th Quarter Total	\$4,785.68	\$2,077.72	\$3,619.94	\$2,315.00
	6,343.41	5,304.51	6,642.28	.4,599.57
	4,768.91	5,270.44	2,515.00	3,547.25
	7,685.79	5,837.87	3,612.60	3,170.00
	\$23,601.79	\$18,490.54	\$16,389.82	\$13,631.82

DIVISION OF ENGINEERING— CONSTRUCTION



DIVISION OF ENGINEERING—CONSTRUCTION.

Long Island City,

JAMES A. DAYTON, Esq., Commissioner of Public Works, Borough of Queens:

SIR—I have the honor to submit herewith a report of the work of the Bureau of Engineering Construction for the year ending 1914.

The report contains information almost entirely about the design and construction of new work. That dealing with sewers is from records on file in the office of Harold Tait, Assistant Engineer, the data relating to highway construction and supplies for highway maintenance is from records in the files of Assistant Engineer James J. Blake, and that regarding Chemical Analysis, Physical Tests and Bacteriological work from reports and data in files of Mr. P. M. Travis, Chemist in Charge of Laboratory.

Respectfully submitted,

James Rice,

Engineer in Charge,

Engineering Construction.

Report of Bureau of Engineering Construction of total work done by contract in the construction of sewers and work incidental thereto for the year ending December 31, 1914:

There have been constructed:	st Incurred.
353.1 lin. ft. timber outlet sewer (43d Street)	\$7,102.00
323. lin. ft. 13 ft. 9 in. x 8 ft. 0 in. concrete sewer	29,393.00
	/
	2,220.00
142. lin. ft. 10 ft. 6 in. x 8 ft. 6 in. twin reinforced concrete	2.040.00
sewer	2,840.00
2.61 lin. ft. 7 ft. 6 in. x 7 ft. 7¼ in. reinforced concrete sewer	65.25
5. lin. ft. 9 ft. 0 in. reinforced concrete sewer	236.70
807. lin. ft. 8 ft. 6 in. reinforced concrete sewer	13,904.61
697.74 lin. ft. 8 ft. 0 in. x 7 ft. 0 in. twin reinforced concrete	40 450 40
sewer	18,459.40
1,233. lin. ft. 8 ft. 0 in. reinforced concrete sewer	18,668.07
2.61 lin. ft. 7 ft. 6 in. x 7 ft. 7¼ in reinforced concrete sewer	65.25
276.22 lin. ft. 7 ft. 6 in. x 7 ft. 0 in. reinforced concrete sewer	8,472.07
1,089.10 lin. ft. 7 ft. 6 in. reinforced concrete sewer	28,709.91
763.90 lin. ft. 7 ft. 0 in. x 5 ft. 6 in. reinforced concrete sewer	13,253.67
1,845.6 lin. ft. 7 ft. 0 in. reinforced concrete sewer	25,582.93
905.8 lin. ft. 6 ft. 6 in. reinforced concrete sewer	10,869.60
35. lin. ft. 5 ft. 7 in. x 3 ft. 83/4 in. reinforced concrete sewer	361.90
1,391.38 lin. ft. 5 ft. 6 in. reinforced concrete sewer	17,646.40
252.53 lin. ft. 5 ft. 3 in. reinforced concrete sewer	2,651.57
4,220. lin. ft. 5 ft. 0 in. reinforced concrete sewer	36,677.40
159.83 lin. ft. 4 ft. 9 in. reinforced concrete sewer	1,519.98
1,174.72 lin. ft. 4 ft. 6 in. reinforced concrete sewer	11,384.96
250.20 lin. ft. 4 ft. 3 in. reinforced concrete sewer	2,001.60
646.89 lin. ft. 4 ft. 0 in. concrete sewer	5,563.21
386.90 lin. ft. 3 ft. 9 in. concrete sewer	2,283.40
1,574.22 lin. ft. 3 ft. 6 in. concrete sewer	11,602.23

There	e ha	ve	been constructed:	Cost Incurred.
929.48	lin.	ft.	3 ft. 3 in. concrete sewer	5,159.60
2,836.58	lin.	ft.	3 ft. 0 in. concrete sewer	15,463.01
1,040.40	lin.	ft.	2 ft. 9 in. concrete sewer	6,788.16
1,284.07	lin.	ft.	2 ft. 6 in. concrete sewer	7,004.21
4,939.64	lin.	ft.	24 in. V. S. G. P. sewer	15,915.83
1,240.70	lin.	ft.	22 in. V. S. G. P sewer	4,316.07
3,293.20	lin.	ft.	20 in. V. S. G. P. sewer	9,483.06
			18 in. V. S. G. P. sewer	
			15 in. V. S. G. P. sewer	
			12 in. V. S. G. P. sewer	
			8 in. V. S. G. P. sewer	
			6 in. V. S. G. P. for house connections	
6,958.			12 in. vitrified salt-glazed pipe for basin connections	
910.			10 in. vitrified salt-glazed pipe for basin connections	
81.			8 in. vitrified salt-glazed pipe for basin connections	
48.			24 in. cast iron pipe sewer, Class B	
24.			18 in. cast iron pipe sewer	
492.			16 in. cast iron pipe sewer, including posts, etc	
572.	lin.	ft.	3 ft. 6 in. x 2 ft. 6 in. wooden box drain, including	
			fill (Leavitt Park)	
814.			3 ft. 0 in. x 2 ft. 6 in. wooden box drain (Leavitt Park)	
227.			railroad underpinning, etc. (51st Street)	
98,406.	lin.	ft.	piles	. 30,366.20
417.	lin.	ft.	cofferdam on 13 ft. 9 in. x 8 ft. 0 in. reinforced con	
404		٠.	crete sewer (51st Street)	
434.	lin.	It.	cofferdam on 12 ft. 6 in. reinforced concrete sew	
54.	12	£4	on piles	
54.	1111.	11.	concrete reinforced on 12 ft. 6 in, reinforced concre sewer on piles	
125.	lin	f+	concrete reinforced on 12 ft. 6 in. reinforced concre	
120.	1111.	1 6.	sewer	
65.	lin	f+	concrete on 10 ft. 6 in. x 8 ft. 6 in. twin reinforce	
05.	1111.	11,	concrete sewer	
1,818.	lin	ft	cast iron segments delivered on 12 ft. 6 in. tunn	
1,010.	*****	10.	sewer	
1,883.	lin.	ft.	cast iron segments delivered on 11 ft. 0 in. tunn	
			sewer	
3,264.	lin.	ft.	cast iron segments delivered on 8 ft. 0 in. tunn	
			sewer	
717.	lin.	ft.	cast iron segments set on 12 ft. 6 in, tunnel sewer	. 8,604.00
775.	lin.	ft.	cast iron segments set on 11 ft. 0 in. tunnel sewer	. 9,300.00
2,276.	lin.	ft.	cast iron segments set on 8 ft. 0 in. tunnel sewer	. 13,656.00
119.	lin.	ft.	fill on 12 ft, 6 in. reinforced concrete sewer on piles.	. 3,570.00
219.	lin.	ft.	fill on 12 ft. 6 in. reinforced concrete sewer on earth	3,383.00
244.	lin.	ft.	excavation on 12 ft. 6 in, reinforced concrete sewe	er
			on piles	
199.	lin.	ft.	excavation on 12 ft. 6 in. reinforced concrete sewe	
			on piles	
830.	lin.	ft.	excavation on 12 ft. 6 in. circular cast iron tunn	
1.010			sewer	
1,018.	lin.	it.	excavation on 11 ft. 0 in. circular cast iron tunn	
2 442	1:	£ 4.	sewer	
2,442.	ıın.	It.	excavation on 8 ft. 0 in. circular cast iron tunn	
			sewer	62,026.80

		ost Incurred.
307.	lin. ft. excavation on 10 ft. 6 in. x 8 ft. 6 in. twin reinforced	
	concrete sewer	9,949.87
1,830.	lin. ft. grout for 8 ft. 0 in. cast iron tunnel sewer	5,490.00
703.	lin. ft. grout for 11 ft. 0 in. cast iron tunnel sewer	2,012.00
750.	lin. ft. grout for 12 ft. 6 in. cast iron tunnel sewer	3,000.00
86.	lin. ft. grout (extra) for 51st Street	688.00
8,401.	cu. yds. excavation, 51st Street	24,380.00
21,438.	cu. yds. excavation, 43d Street	30,013.20
1,347.	cu. yds. fill between Grit Chamber and retaining wall, 43d	CEO 50
20	Street	673.50
30.	cu. yds. earth fill in place (Leavitt Park)	15.00
4,680.	cu. yds. concrete at 51st Street (Outlet S. and Increaser, etc.)	37,440.00
	cu. yds. concrete at Hayes Avenue shaft	5,700.00
		3,900.00
	cu. yds. concrete at Kingsland Avenue shaft	6,555.00 4,380.00
105.	cu. yds. concrete at Ditmars Avenue snart	5,500.00
2.599.	cu. yds. concrete at 23d Street	20,478.00
2,399. 158.	cu. yds. rock	145.13
	feet B. M. timber for foundation	8,182.56
	feet B. M. timber, bracing 7 sheeting	27,670.24
	excavation, Lurting Street chamber	5,500.00
90%	excavation, Ditmars Avenue shaft	7,020.00
339,344.	pounds of steel.	7,207.66
1	increaser, 6 ft. 6 in. to 7 ft. 0 in	100.00
1	increaser, 30 ft. long, on 13 ft. 9 in. twin reinforced concrete	100.00
*	sewer	3,490.00
2	fender clusters	1,000.00
1	overflow chamber (Fulton Street, Fourth Ward Contract)	1,054.00
1	reinforced concrete buttressed retaining wall (43d Street)	2,530.00
	6 in. x 6 in. timber lattice bracing	1,500.00
100%	column, Kingsland Avenue shaft (51st Street)	190.00
1	culvert, Leavitt Park	300.00
2	Y's, 8 in. x 8 in., 3 ft. long	8.00
16	Y's, 12 in. x 6 in., 3 ft. long	14.40
1	crossing under Long Island Railroad (Thedford Avenue Con-	
	tract)	1,500.00
1	connection complete with 11 ft. 3 in. reinforced concrete sewer,	
	Myrtle Avenue, Second Ward	600.00
1	screen and grit chamber (43d Street)	6,000.00 -
90	risers for house connections	1,728.00
7	junction chambers	1,840.00
10	cleaning shafts	995.00
606	manholes	35,247.50
5	manholes for concrete sewers	1,250.00
1	manhole (shallow)	40.00
260	receiving basins	30,868.80
54	receiving basins, double	10,255.00
121	spurs on 5 ft. 0 in. reinforced concrete sewer	151.25
21	spurs on 3 ft. 9 in. concrete sewer	21.00
12	spurs on 3 ft. 6 in. concrete sewer	12.00
27	spurs on 3 ft. 0 in. concrete sewer	33.75
31	spurs on 2 ft. 6 in. concrete sewer	31.00
82	spurs on 24 in. V. S. G. pipe sewer	273.32

	st Incurred.
55 spurs on 22 in. V. S. G. pipe sewer	342.10
224 spurs on 20 in. V. S. G. pipe sewer	647.80
69 spurs on 18 in. V. S. G. pipe sewer	191.70 32.24
67 spurs on 15 in. V. S. G. pipe sewer	1,304.31
-	
	1,316,702.85
The following sewers have been completed during 1914:	Cost.
Sewer and appurtenances in <i>Murray Street</i> , from Franconia Avenue to Bayreuth Street; in <i>California Avenue</i> , from Murray Street to Crown,	
385 feet east of Ziegler Avenue; in <i>Delaware Street</i> , from Murray	
Street to Ziegler Avenue, and in Erie Street, from Murray Street to	
Ziegler Avenue, Third Ward	\$8,305.04
Sewer and appurtenances in Ralph Street, from Seneca Avenue to Fair-	
view Avenue, and in Fairview Avenue, from Ralph Street to Bleeker	
Street, Second Ward	9,491.36
Storm water sewer and appurtenances in Queens Avenue, from Elton	
(17th) Street to Parsons Avenue; Ziegler (Central) Avenue, from	
Queens Avenue to Bayreuth (Beech) Street; Bayreuth Street, from Ziegler Avenue to Wentworth (Wilson) Avenue; California (Cy-	
press) Avenue, from Ziegler Avenue to Crown 385 feet east of Ziegler	
Avenue; Françonia Avenue, from Ziegler Avenue to Crown 210 feet	
east of Ziegler Avenue; Georgia (Hawthorne) Avenue, from Ziegler	
Avenue to the Crown 360 feet east of Ziegler Avenue; Hyacinth	
Street (Hollywood Place), from Ziegler Avenue to Crown 260 feet	
east of Ziegler Avenue, Third Ward	12,907.60
Sewer and appurtenances in <i>Percy Street</i> , from Parsons Avenue to Beech	
Street; in Cypress Avenue, from Percy Street to Central Avenue; in Delaware Street, from Percy Street to Central Avenue, and in	
Elm Street, from Percy Street to Central Avenue, Third Ward	9,780.56
Sewer and appurtenances in Cypress Avenue, from Cooper Street to	2,700.50
Vermont Avenue, Second Ward	20,103.26
Sewer and appurtenances in Sixteenth Street, from Franconia Avenue	
to Cypress Avenue; in Cypress Avenue, from 16th Street to Murray	
Street, and in Delaware Street, from 16th Street to Murray Street,	
Third Ward	3,813.63
Outlet sewer and appurtenances in <i>Division Avenue</i> , from a point on the shore on the approximately northern extension of the center line to	
a point about 492 feet to low water mark, Fifth Ward	1,350.00
Sewer and appurtenances in Beaufort Avenue, from Lefferts Avenue to	1,000.00
Maure Avenue; in Birch Street, Spruce Street, South Vine Street,	
South Crocheron Avenue, and South Villa Street, from Beaufort	
Avenue to Chichester Avenue, Fourth Ward	12,628.06
Sewer and appurtenances in Woodbine Street, from Cypress Avenue to	
Seneca Avenue, Second Ward	1,466.63
Sewer and appurtenances in Liberty Avenue, from Lefferts Avenue to	
Nebraska Avenue, and in South Curtis Avenue, from Liberty Avenue to Atlantic Avenue, Fourth Ward	124,227.75
Receiving basins and appurtenances on the northerly corner of Wood-	
ward Avenue and Silver Street, Second Ward	193.00
Sewer and appurtenances in Atlantic Avenue, South Side, from Green-	
wood Avenue to Lefferts Avenue; Chestnut Street, from Atlantic	
Avenue to Chichester Avenue, and in Cedar Avenue, from the Crown	
215 feet south of Atlantic Avenue, Fourth Ward	7,359.49
96	

	Cost.
Temporary sewer and appurtenances in Freedom Avenue, from Rockaway Road to Liberty Avenue, and a sewer and appurtenances in Freedom Avenue, from Liberty Avenue to Jamaica Avenue, Fourth	
Ward	157,890.17
Receiving basin and appurtenances on the easterly corner of Cypress Avenue and Harmon Street, Second Ward	261.50
Receiving basins and appurtenances on <i>Onderdonk Avenue</i> , at the easterly corner of Suydam Street; at the easterly corner of Hart Street,	255 50
Second Ward	355.50
Avenue and Honeywell Street, First Ward	300.00
Hoyt Avenue, First Ward	1,248.30
Sewer and appurtenances on Jerome Avenue, from Greenwood Avenue, to Lefferts Avenue; in Chestnut Street, from Jerome Avenue to	642.50
Chichester Avenue; Cedar Avenue, from Jerome Avenue to Beaufort Avenue; Hamilton Avenue, from Jerome Avenue to Chichester Avenue; Walnut Street, from Jerome Avenue to Chichester Avenue;	
 Briggs Avenue, from Jerome Avenue to Chichester Avenue; Church Street, from Jerome Avenue to Chichester Avenue, Fourth Ward Sewer and appurtenances in Onderdonk Avenue, from Troutman Street to Suydam Street, and in Starr Street, from Onderdonk Avenue 	20,406.96
to Borough Line, Second Ward	4,939.62
Van Dam Street, First Ward	3,216.80
erly to Putnam Avenue northerly, and in Putnam Avenue, from Forest Avenue to Buchman Avenue, Second Ward	4,070.55
Ward	1,311.50
Franconia Avenue to Hawthorne Street; in Hawthorne Street, from 16th Street to the Crown 350 feet east of Central Avenue, Ingleside, Third Ward	6,017.33
Ouchess Street to Boerum Avenue; Custer Street, from Beech Street to Sanford Avenue; Murray Street, from Beech Street to Sanford Avenue, and Ash Street, from Wentworth (Wilson) Avenue to Murray Street, Ingleside, Third, Ward	13,880.57°
man Avenue, Second Ward	276.00
to Forest Avenue, Second Ward	1,734.19
Woodbine Street, Second Ward	750.64
and Burroughs Avenue, Fifth Ward	104.25

	Cost
Temporary park inlet basins on the southwest corner of Oceanus Ave-	
nue and Lefferts Place and on the northeast and southwest corners	
of Division Avenue and Burroughs Avenue, Fifth Ward	156.40
Receiving basins and appurtenances on the four corners of Hancock	
Street and Bodine Street, First Ward	558.00
Receiving basins and appurtenances on the northeast, northwest and south-	
west corners of Thompson Avenue and Court Street, First Ward	1,321.36
Sewer and appurtenances in Liberty Avenue, from Stoothoff Avenue	
to Chestnut Street; in Cedar Avenue, from Liberty Avenue to Kim-	
ball Avenue, and in Chestnut Street, from Liberty Avenue to Kimball	
Avenue, Fourth Ward	4,618.00
Receiving basins and appurtenances on Harris Avenue: At the north	
and east corners of Hancock Street; at the north and east corners	
of The Boulevard; at the east corner of Sherman Street; at the	
east corner of Marion Street, and at the south corner of Marion	
Place, First Ward	1,561.00
Sewer and appurtenances in Chichester Avenue, from Freedom Avenue	
to Ocean Avenue, East Side, and in Lawn Avenue, from Chichester	
Avenue to Beaufort Avenue, Fourth Ward	2,555.04
Sewer and appurtenances in Sherman Street, from Camelia Street to	
Elm Street, and from Temple Street to Grand Avenue, and to lay	
six-inch pipe for house connection drains in Sherman Street, from	
Broadway to Camelia Street, and from Elm Street to Temple Street,	
First Ward	2,758.30
Sewer and appurtenances in Fulton Street, from Vanderveer Avenue to	
Ocean View Avenue, and in Ocean View Avenue, from Fulton	
Street to Ridgewood Avenue, Fourth Ward	20,202.48
Sewer and appurtenances in Spruce Street, from Jamaica Avenue to St.	
Anns Avenue, and in St. Anns Avenue, from Birch Street to Bre-	
voort Street, Fourth Ward	8,244.41
Sewer and appurtenances in Kimball Avenue, from Freedom Avenue	
to Hatch Avenue; in Ocean Avenue, West Side, from Kimball Ave-	
nue to Jerome Avenue; in Thedford Avenue, from Kimball Avenue	
to Jerome Avenue; in Hatch Avenue, from Kimball Avenue to	
Jerome Avenue, and in Jerome Avenue, from Ocean Avenue, West	
Side, to Hatch Avenue, Fourth Ward	14,187.74
Sewer and appurtenances in Harmon Street, from Forest Avenue to	
Grandview Avenue, Second Ward	3,431.09
Sewer and appurtenances in Ridgewood Avenue, from Hamilton Avenue	
to Lefferts Avenue; Stoothoff Avenue, from Jamaica Avenue to	
Ridgewood Avenue; Hamilton Avenue, from Ridgewood Avenue to	
point 200 feet north of Fulton Street; Walnut Street, from Jamaica	
Avenue to a point 200 feet north of Fulton Street; Briggs Avenue,	
from Jamaica Avenue to a point 225 feet north of Fulton Street, and	
in Church Street and Lefferts Avenue, from Jamaica Avenue to Ful-	
ton Street	26,174.57
Combined sewer and appurtenances in Parsons Avenue, from Queens	
Avenue to Oak Avenue, Third Ward	10,933.28
Sewer and appurtenances in: Parsons Avenue, from Queens Avenue to	
Beech Street; Beech Street, from Parsons Avenue to Percy Street;	
Cypress Avenue, from Parsons Avenue to Percy Street; Delaware	
Street, from Parsons Avenue to Percy Street; Franconia Avenue,	
from Parsons Avenue to Central Avenue; Hawthorne Street, from	17 400 77
Parsons Avenue to Central Avenue, Ingleside, Third Ward	17,482.56

	Cost.
Sewer and appurtenances in <i>Madison Street</i> , from Myrtle Avenue to Wyckoff Avenue; in <i>Wyckoff Avenue</i> , from Madison Street to Halsey Street, and in <i>Halsey Street</i> , from Wyckoff Avenue to Irving Avenue,	
Second Ward	34,815.77
nue to Leland Place and a temporary sanitary sewer in Leland Place, from Redfern Avenue to the Sewage Purification Plant, Fifth Ward. Sewer and appurtenances in Beaufort Avenue, from Freedom Avenue to Hatch Avenue; in Hatch Avenue, from Beaufort to Jerome Avenue; in Thedford Avenue, from Beaufort Avenue to Jerome Avenue, and in Shattuck Avenue, from Hatch Avenue to Thedford Avenue, Fourth	28,527.64
Ward Temporary basins on the southeast corner of 19th Street and Bayside Avenue and the southwest corner of 19th Street and 14th Avenue,	21,016.99
at Whitestone, Third Ward	349.72
Ward Sewer and appurtenances in Hancock Street, from Cypress Avenue to	1,303.65
Wyckoff Avenue, Second Ward Sewer and appurtenances in <i>Thedford Avenue</i> , from Beaufort Avenue to Chichester Avenue; <i>Chichester Avenue</i> , from Thedford Avenue to	2,243.20
Vanderveer Avenue, and in Vanderveer Avenue, from Chichester Avenue to Fulton Street, Fourth Ward	28,881.73
Sewer and appurtenances in Wyckoff Avenue from Halsey Street to the Manhattan Beach Division of the L. I. R. R. Co., Second Ward Temporary dry weather flow sewer in the line of Forty-third Street,	6,720.75
from the Pierhead Line to the Bulkhead Line; a sewer and appurtenances in Forty-third Street, from the Bulkhead Line of Flushing Bay to Ditmars Avenue and a temporary grit and screening chamber in Forty-third Street, and a sewer and appurtenances in Ditmars Avenue (Bayshore Terrace), from Forty-third Street to Fifty-first Street, Second Ward	241,072.35
of Batavia Street and Leavitt Park, through Leavitt Park to a point on Bayside Avenue 100 feet east of Batavia Street, Third Ward	3,496.80
_	\$911,645.59
The following assessment maps and lists were forwarded to the Assessors during the year 1914: Receiving basins on the southerly side of Borden Avenue opposite Hey-	Board of Total Cost.
ward Street, etc., First Ward	\$1,862.00
Hunters Point Avenue, etc., First Ward	174,044.82
Street, etc., First Ward	24,860.20
Avenue to Van Pelt Street, First Ward	31,017.20
from Steinway Avenue to Second Avenue	1,794.52
Avenue to Cypress Avenue, Second Ward	386.36
Fourth Avenue, First Ward	634.36

	Total Cost.
Sewer and appurtenances in Potter Avenue, from Lawrence Street to	#00 0#
Second Avenue, First Ward	708.97
Washington Place to Skillman Place, First Ward	1,567.89
Sewer and appurtenances in <i>Hulst Street</i> , from Greenpoint Avenue to	2,007.07
Anable Avenue, First Ward	2,420.81
Sewer and appurtenances in Marion Street, from Webster Avenue to	
Payntar Avenue, First Ward	3,346.44
Sewer and appurtenances in Skillman Avenue, from Hunter Avenue to	422 52
Jackson Avenue, First Ward	422.53
North Jane Street, First Ward	1,257.10
Sewer and appurtenances in Hamilton Avenue, from Liberty Avenue to	2,207.120
Jerome Avenue, etc., Fourth Ward	18,576.94
Sewer and appurtenances in Hancock Street, from Webster Avenue to	
the crown north of Pierce Avenue, etc., First Ward	16,822.32
Sewer and appurtenances in Flushing Avenue, from Metropolitan Ave-	
nue to Caspian (Atlantic) Street, Second Ward	16,315.54
To lay six-inch pipe for house connections in Webster Avenue, from Vernon Avenue to William Street, First Ward	536.90
Sewer and appurtenances in Radde Street, from Webster Avenue to the	330.90
crown 250 feet north of Pierce Avenue, First Ward	4,541.22
Sewer and appurtenances in Dutch Kills Place, from Meadow Street to	.,
Nott Avenue, etc., First Ward	5,618.54
Receiving basins on Lefferts Avenue as follows: Northwest and southwest	
corners of Roanoke Avenue, etc., Fourth Ward	1,388.91
Receiving basin on the easterly corner of Willow Street and Franklin	217.02
Street, First Ward	217.02
Liberty Avenue, and a sewer and appurtenances in Freedom Avenue,	
from Liberty Avenue to Jamaica Avenue, First Ward	165,516.20
Sewer and appurtenances in Chichester Avenue, from Greenwood Avenue	
to Lefferts Avenue, etc., Fourth Ward	15,437.08
Sewer and appurtenances in Lefferts Avenue, from Liberty Avenue to	
Atlantic Avenue, Fourth Ward	10,266.98
Sewer and appurtenances in <i>Percy Street</i> , from Parsons Avenue to Beech	10,591.31
Street, etc., Third Ward	10,591.51
Side, to Greenwood Avenue, etc., Fourth Ward	31,712.78
Sewer and appurtenances in Ditmars Avenue, from the East River to	02,7 2217 0
Crescent Street, First Ward	7,566.01
Temporary sewer and appurtenances in Fifteenth Street, from High	
Street to Schleicher Court, Third Ward	1,802.01
Re-building and improving outlet of the Broadway sewer from Vernon	10 200 40
Avenue to East River, First Ward.	10,398.40
Sewer and appurtenances in <i>Queens Avenue</i> , from Elton (17th Street to Parsons Avenue, etc., Third Ward	14,556.49
Sewer and appurtenances in Sixteenth Street, from Queens Avenue to	11,000112
Hawthorne Street, etc., Third Ward	3,157.46
Sewer and appurtenances in Queens Avenue, from Elton (17th) Street to	
crown 210 feet east of Central Avenue, Third Ward	6,718.09
Sewer and appurtenances in Murray Street, from Franconia Avenue to	0.060.33
Bayreuth Street, etc., Third Ward	9,068.32
Cypress Avenue etc. Third Word	1 271 74

Commendation of Tax 1.4 or for D.1. A	Total Cost.
Sewer and appurtenances in <i>Forest Avenue</i> , from Putnam Avenue, southerly, etc., Second Ward	4,623.03
ford Avenue, Third Ward	1,809.84
wood Avenue to Lefferts Avenue, etc., Fourth Ward Sewer and appurtenances in <i>Ralph Street</i> , from Seneca Avenue to Fair-	8,395.24
view Avenue, etc., Second Ward	10,749.80
to Suydam Street, etc., Second Ward	5,856.21
Seneca Avenue, Second Ward	1,648.16
Sewer and appurtenances in Liberty Avenue, from Stoothoff Avenue to Chestnut Street, Fourth Ward	5,354.17
Sewer and appurtenances in <i>Jerome Avenue</i> , from Greenwood Avenue to Lefferts Avenue, Fourth Ward	22,187.48
Sewer and appurtenances in Cypress Avenue, from Cooper Street to Vermont Avenue, Second Ward	24,245.44
Sewer and appurtenances in Academy Street, from Graham Avenue to Broadway, First Ward	1,562.96
Sewer and appurtenances in Liberty Avenue, from Lefferts Avenue to Nebraska Avenue, etc., Fourth Ward	129,893.12
Sewer and appurtenances in Jerome Avenue, from Lefferts Avenue to Maure Avenue, etc., Fourth Ward	19,493.24
Sewer and appurtenances in Beaufort Avenue, from Lefferts Avenue to Maure Avenue, etc., Fourth Ward	13,594.82
Receiving basin on the northwest corner of Washington Avenue and Seventh Avenue, First Ward	231.75
Receiving basins on the northwest and southwest corner of Fulton Street and Spruce Street, etc., Fourth Ward	705.37
Sewer and appurtenances in <i>Thomson Avenue</i> , from Orton Street to Van Dam Street, Fourth Ward	3,629.07
Laying six-inch pipe for house connections (where not already laid) and for three manholes on the line of the existing sewer in <i>Hughes Street</i> , between Anthon Avenue and Buchman Avenue, Sec-	
ond Ward	381.21
Temporary catch basin at the southeast corner of Jamaica Avenue and Walker Avenue (I Place), etc., Fourth Ward	1,083.36
Sewer and appurtenances in Fairview Avenue, from Putnam Avenue to Woodbine Street, Second Ward	1,043.43
Sewer and appurtenances in Madison Street, from Woodward Avenue to Forest Avenue, Second Ward	2,061.97
Receiving basins on <i>Harris Avenue</i> : On the northerly and easterly corners of Hancock Street. On the northerly and easterly corners of	
The Boulevard, etc., First Ward To lay six-inch pipe for house connections in Hopkins Avenue, from	1,798.44
Grand Avenue to Taylor Street, First Ward	108.29
(Cypress) Avenue to Sanford Avenue, etc., Third Ward Sewer and appurtenances in <i>Hancock Street</i> , from Cypress Avenue to	15,378.08
Wyckoff Avenue, Second Ward	2,685.96
nue to the existing sewer about 475 feet south of Wilson Avenue, First Ward	1,597.45

	Total Cost.
Sewer and appurtenances in Redfern Avenue, from McNeil Avenue to	
Leland Place, etc., Fifth Ward	31,132.88
Sewer and appurtenances in Beaufort Avenue, from Freedom Avenue to	
Hatch Avenue, etc., Fourth Ward	24,170.65
Sewer and appurtenances in Thedford Avenue, from Beaufort Avenue to	
Chichester Avenue, Fourth Ward	31,141.63
Total	\$065,006 E1
10tat	φ905,990.51
There were constructed during the year 1914:	
4.63 Miles of concrete and reinforced concrete sewers.	
10.47 Miles of pipe sewers.	
311 Receiving basins.	
There are now in the Borough:	
44.4794 Miles of brick and concrete sewers.	
242.1835 Miles of pipe sewers. 3,060 Receiving basins.	
12 to 15 Miles of open drain,	
3 Sewage purification plants.	
Report of Bureau of Engineering Construction of total work done by	
the construction and maintenance of highways for the year ending Decemb	er 31, 1914:
63,626.2 sq. yds. of asphaltic concrete pavement laid.	
6,722.9 sq. yds. of asphalt block pavement laid.	
55,176.90 sq. yds. of old granite block pavement relaid.	
79,464.66 sq. yds. of sheet asphalt pavement laid.	
35,355.4 sq. yds. of improved granite block pavement laid.	
57.1 sq. yds. of vitrified brick pavement relaid.	
35,733.8 sq. yds. of old granite block pavement furnished and laid. 100 sq. yds. of asphalt block pavement relaid.	
23 sq. yds. of wood block pavement relaid.	
15,862.1 sq. yds. of sheet asphalt pavement repaired.	
1,177.23 tons of old granite block loaded on cars.	
3,257.4 sq. yds. of old granite blocks purchased and removed by contract	ctor.
41,726.32 cu. yds. of concrete foundation laid.	
228,424 gals of oil spread upon road.	
11,202.7 cu. yds. of broken stone placed for foundation.	
130,955 cu. yds. of earth excavated.	
665.3 cu. yds. of rock excavated.	
54,027.4 cu. yds. of embankment furnished.	
80,894.3 lin. ft. of new bluestone curb furnished and set.	
27,105.30 lin. ft. of old bluestone curb reset. 65,139.35 lin. ft. of new cement curb set.	
604 lin. ft. of old cement curb reset.	
78,755.4 sq. ft. of new flagstone sidewalk furnished and laid.	
367,739.25 sq. ft. of new cement sidewalk furnished and laid.	
6,582.6 sq. ft. of old flagstone sidewalk relaid.	
11,839.3 sq. ft. of new crosswalks furnished and laid.	
1,681.2 sq. yds. of stone gutters furnished and laid.	
1,504.6 sq. yds. of stone gutters relaid.	
1,107 lin. ft. 24-in. drain pipe in place.	
20 lin. ft. 24-in. cast iron pipe in place.	
37 catch basins rebuilt.	
16 new catch basins built. 23 catch basins adjusted.	
23 catch basins adjusted.	

- 3 sewer manholes adjusted.
- 2 new seepage basins built.
- 37 cu. yds. of gravel placed in crosswalks.
- 88.8 cu. yds. of broken stone placed in crosswalks.
- 5,250 lin. ft. of 12-in, vitrified drain pipe in place.
 - 72 lin. ft. of 12-in. cast iron drain pipe in place.
- 1,998 lin. ft. of 18-in. vitrified drain pipe in place.
 - 49.4 lin. ft. of iron fence reset.
- 696 lin. ft. of rail fence erected.
- 80.5 lin. ft. of pipe railing fence erected.
- 446.4 lin. ft. of 6-ft. board fence erected.
- 475 cu. ft. of cement steps in place.
- 39.4 cu. ft. of stone coping reset.
- 200 cu. yds. of concrete, placed in footings.
- 320 cu. yds. of rubble masonry in place.
- 4,622 M. ft. B. M. timber relaid.
- 463 sq. yds. of old rip rap relaid.
 - 685 sq. yds. of new rip rap laid.
 - 165 cu. yds. of concrete placed in sea wall.
- 250 cu. yds. of rubble masonry relaid in sea wall.
- 9,812.50 cu. yds. of sand furnished on contract.
- 170 M. wood blocks furnished on contract.
- 240,200 vitrified blocks furnished on contract.
- 26,121 cu. vds. of broken stone furnished on contract.
- 522,008 gals. of light road oil furnished on contract.
- 157,500 gals. of asphaltic oil furnished on contract.
- 11,832 gals. of bituminous road oil furnished on contract.
- 58,973 asphalt blocks furnished on contract.

Number of bids opened during the year 110, amounting to \$1,427,491.36.

Number of contracts completed during the year 87, amounting to \$826,495.07.

Number of assessment maps forwarded to the Board of Assessors during the year 84, amounting to \$846,990.00.

Note—The above list of completed contracts includes 34 of a miscellaneous character which do not necessitate the forwarding of assessment lists to the Board of Assessors. These include reparings, furnishing and delivering materials, etc.

ENGINEER'S OFFICE—BUREAU OF HIGHWAYS.

REPORT FOR YEAR 1914, INCLUDING ALL THE WARDS IN THE BOROUGH OF QUEENS.

	Total Squa of Pave	Total Miles and Square Yards f Pavements in the		Pavement Laid in 1914.	161 in 191	4.	Deduct fo	or Change	Total Square Paveme	Total Miles and Square Yards of Pavements in the
Kind of Pavement.	Borough Decemb	Borough of Queens, December 31, 1913,		New.	Repayed.	aved.	Kind of	Kind of Pavement.	Borough	Sorough of Queens, December 31, 1914.
	Miles.	Sq. Yds.	Miles.	Sq. Yds.	Miles.	Sq. Yds.	Miles.	Sq. Yds.	Miles.	Sq. Yds.
	86.52	881,845	6.74	92,730					93.26	974,575
. Contr.)	23 85	474.616	0.28	5,000					24.14	483,539
	9.30	170,216						- 1	9.30	170,216
	34.15	205,295	1.50	27.151	5.98	85.196	0.93	16,560	35.65	636.960
	3.49	64,380	:			• • • • • • • • • • • • • • • • • • • •	0.44	8,258	3.05	56,122
	21 22	350,013	0.37	110 585	1.06	11 266	:	:	40.22	469 598
	228.60	2,768,246			6,46	99,320	16.11	203,315	212.49	2,564,931
	453.91	5,926,531	21.54	306,054	13.50	185,782		:	457.97	6,004,452
					:	:	4.06	77,821	00.009	

ENGINEER'S OFFICE—BUREAU OF HIGHWAYS.

Report for the Year of 1914 of Paved and Unpaved Streets in the Borough of Queens.

	Fire	Ward	Second	Ward.	Thire	d Ward.		th Ward.	Fifth	Ward.	To	Fotals.
Kind of Improvement.	Miles.	Sq. Yds.	Miles.	Sq. Yds.	Miles.	Miles. Sq. Yds.	Miles.	Sq. Yds.	Miles.	Sq. Yds.	Miles.	Sq. Yds.
Asphaltic Concerete	0.85	10,500	25.35	278,074	30.87	322,963 39,618	30.72	304,846 54,667	5.47	58,192 1,514	93.26	974,575
Asphalt Block	23.34	463,294	0.65	11,969	0.15	8,276	1.06	19,616	: :	: :	24.14	483,539 170,216
90 Wood Block	3 ::	11110	4.51	91,382	:		2.88	34,522	3.96	62,831	11.35	188,735
Iron Slag	0.55	2,200	24.47	391.088	0.84	10,233	4.12	75,062	0.05	420	35.65	636,960
Belgian Block	1.97	38,496	0.41	5,787	0.07	1,225	0.60	10,604	0.63	508 9	3.05	56,122
Tarvia or Bit. Mac	0.83	13,389	20.08	210,411	70.38	948,717	93.28	1,011,052	28.00	381,362	212.49	2,564,931
Totals	47.98	944,169	96.88	1,288,070	120.36	1,553,782	154.57 235.00	1,707,217	38.18	511,214	457.97	6,004,452
Grand Totals	155.90	:	218.88		220.36		389.57		73.18		1057.97	

REPORT OF THE BUREAU OF ENGINEERING CONSTRUCTION OF WORK DONE BY THE CHEMICAL AND PHYSICAL TESTING LABORATORY FOR THE YEAR ENDING DECEMBER 31, 1914.

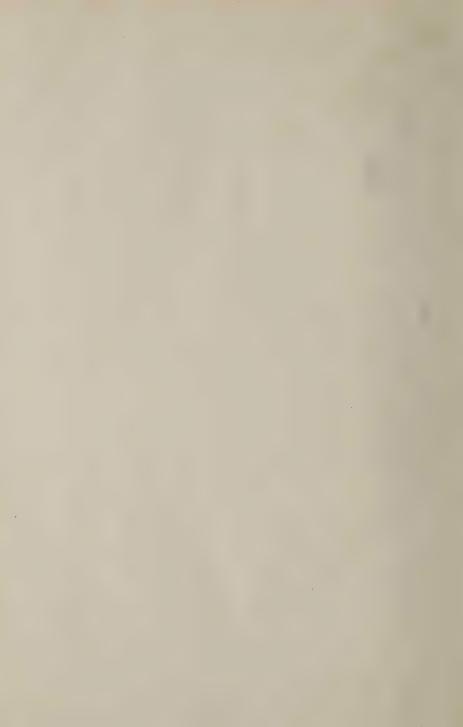
The Laboratory was opened in September, 1913, but a report of its operations was not included in the report of the Borough President of that year. It is equipped with modern apparatus for making chemical analysis, and the physical testing of materials used in work done by contract or purchased as supplies; also for bacteriological work in the sanitary investigations made in connection with the operation of the sewage disposal plants in the Borough of Queens. The work of this Division covers a broad field in scientific investigations. Samples of all materials used in constructing the drainage systems, highways, or other municipal work coming under the authority of the Borough President, are subjected to a chemical analysis, or physical test as required by the specification before being used in the work.

The laboratory force consisted of one Chemist, one Cement Tester and one Laborer until the latter part of the year when a Junior Chemist was added to the force.

The improvement in quality, and the reduction in cost of materials and supplies (this is especially marked in liquid soaps and lime used at sewage disposal plants) justifies the decision of the Borough President, Maurice E. Connolly, to add a Chemical and Physical Testing Laboratory to his organization.

Below is a list of tests made during the year ending December 31, 1914:	
Cement Tests	396
Sand Tests	7
Asphaltic Base Road Oils	14
Tar for Road Surfacing	11
Limestone and Delomite analysis	2
Sheet Asphalt and Asphaltic Concrete	116
Paving Pitches and Asphaltic Cement	7
Asphaltic Block	3
Soap Analysis	8
Phenol Co-efficients of Disinfectants	-8
Varnish Analysis	2
Cement Analysis	2
Lime Analysis	3
Analysis of Clinker From Incinerators	2
Steel Tests	6
Sanitary Water Analyses and Bacteriological Examination of Water	17
Analyses of Sewage, Including Chemical and Bacteriological	188



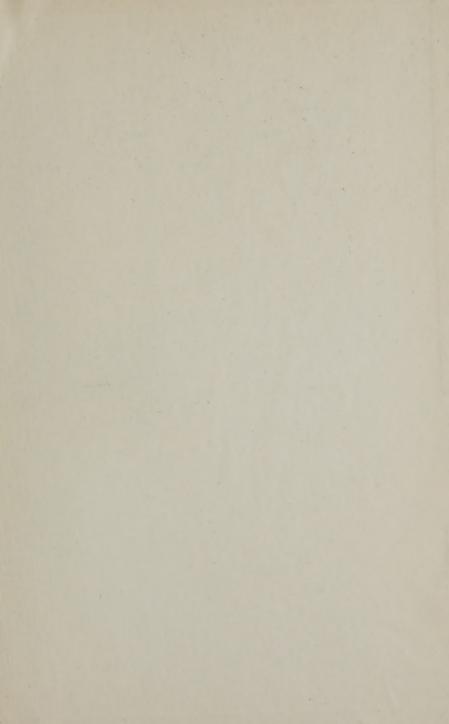












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